

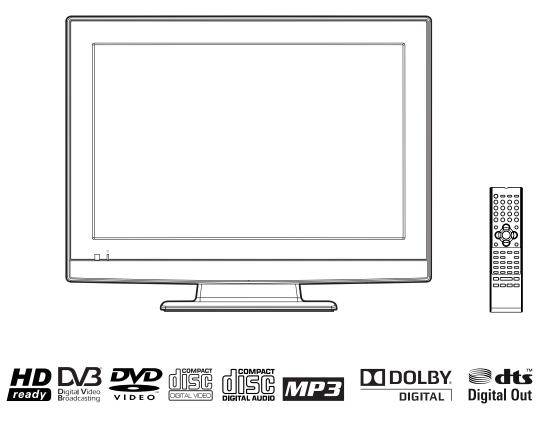
Operating Instructions

LCD-TV

with integrated DVD/CD-Player and DVB-T- / Analog-Tuner

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Model-No.: TV19PL145DVD TV19PW145DVD



Before operating the unit, please read this manual thoroughly.

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Precautions

Thank you for purchasing this unit.

The unit can play back both DVD discs and Audio CDs. • Use only discs marked with the following.

DVD

[8 cm disc/12 cm disc]

Video CDs/Audio CDs [8 cm disc/12 cm disc]

VIDEO





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.

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



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

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

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

WARNING:

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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 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

This symbol means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. There are separate collection systems for recycling in the EU. For more information, please contact the local authority or your retailer where you purchased the product.

- 2 * 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

- тν
- LCD MONITOR
 Resolution: 1440 x 900 pixels
- On-Screen Language Display in 13 languages (English, Spanish, German, French, Italian, Swedish, Dutch, Russian, Portuguese, Turkish, Greek, Finnish or Polish)
- NICAM/German A2 STEREO Hyperband cable DVB-T Combi-Tuner
- 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 54)
- HDMI-connection
- CE Symbol Guaranteeing Compliance to Currently Effective European Standards

DVD Player

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

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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 apparatus must be connected to a main socket outlet with a protective earthing connection.
- 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.
- · Only use the unit on a stable, shock-free base 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 sharpedged 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.

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.

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Important safety information

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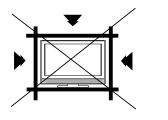


Avoid placing the unit on any surfaces that may be subject to vibrations or shocks.

To protect the unit during a thunder storm unplug the AC power cord and disconnect the antenna. Caution: Do not touch the antenna connector.

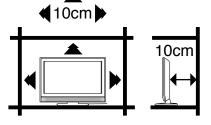


When you leave your home for a long period of time, unplug the AC power cord for safety reasons.



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.

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. ۲

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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.

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 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 eves 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.

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, 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!

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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.







Disc slot

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Description of Indicators and Controls

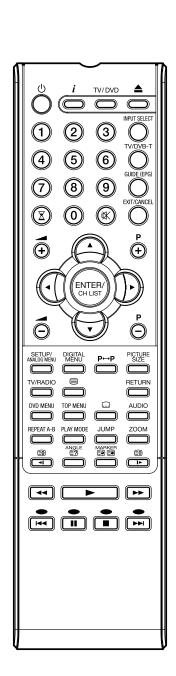
1. Remote sensor

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- 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. TV/AV/PC/ENTER button: Select input mode for TV/AV/COMPONENT/HDMI/PC/DVD. In Menu : Using as ENTER button.
- 6. MENU button: To display the menu screen.
- 7. (Volume) +/- buttons / In Menu: Setting.
- 8. (P) (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.
- 9. P (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.
- 10. (b (Power)-key: Preparation: Connect power-cable to AC220~240V/50Hz.
 - a) If standy-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.

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Remote Control



<u>ڻ</u>	Function Enter standby mode or turn on the power	Page 11
0		
	Display program position number Teletext time display	15, 29, 41
	Select to operate TV/DVD	34
0	Eject a disc	35
0~9	Select channel Select Teletext page Enter password Activate the channel organizer function	15 16
	Select an input source	12
TV/DVB-T	Switches between the analogue TV and the digital TV	23
GUIDE (EPG)	Display the EPG (Electronic Progr. Guide)	31
Ø	Sleep Timer	15
	Turn the sound on/off	15
EXIT/CANCEL	Exit the menu screen Cancel marking	38
	Volume	15
€ O		
<u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	Change the TV channel or Teletext page up or down In Standby: Turn on the power	15, 16 12
000	Cursor buttons	
ENTER/ CHUST	Memorize Teletext page 100 CH LIST	16 15
	Call Setup menu Activate the analogue menu	48 12
	Activate the digital menu	23
P↔P	Switches between the present channel and the last selected channel	15
	Select picture format	19, 20
	Toggle between the TV and radio mode	29
	Teletext ON / TV+Text / OFF	16
RETURN	Remove DVD set up menu	48, 52
DVD MENU	Select menu of a DVD disc	40
TOP MENU	Select title of a DVD disc	40
	Display the subtitle	30, 41
AUDIO	Select between the available broadcast audio Display the multi audio menu Change sound track language of DVD	17 30 30, 41
REPEAT A-B	Repeat playback between A and B (DVD/CD)	39
PLAY MODE	Select playback mode	39,47
JUMP	Locating desired scene	37
ZOOM	Zoom (for DVD playback)	37
Eð T	Hold the text page Reverse slow motion	16 36
	Change playback angle of a DVD disc Reveal quiz page answers	40 16
	Marking desired scene Sub page selection	38
	Teletext enlargement	16
	Forward slow motion	36
	DVD control buttons	34~36
	Fastext/TOPtext buttons DVD control buttons	16 34~36

Install the batteries

Use batteries type UM3 (AA-Size).

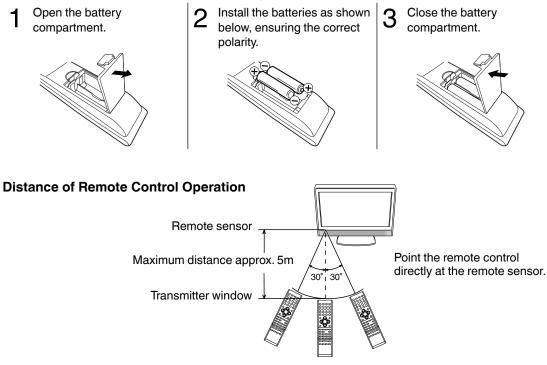
Do not use old or weak batteries. The remote control may not work properly with a weak voltage from such batteries. Replace exhausted batteries with new ones. Never try to recharge normal batteries - this could cause an explosion.

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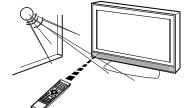
Note:

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Exhausted batteries can leak corrosive electrolyte, which may cause damage to the remote control - therefore remove exhausted batteries immediately.

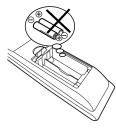


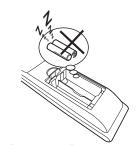
The remote control handset will not work properly in the following cases:





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 d) If the batteries are weak. to their polarities.

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Antenna connection

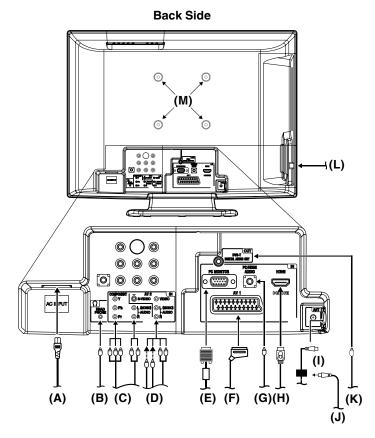
Note: Before you connect other appliances:

• To avoid potentially damaging your set, make sure all items are switched off and disconnected from the mains power when you make the connections.

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- 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 (I/J). Connections to other equipment is explained further on P.56~58. If you have problems with reception, consult a specialist of antenna.



- (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 isolation-tape - this should be repaired by a specialist or replaced. Do not let your pet loose near the cable. Animals biting into the cable could receive a fatal electric shock, and could cause a hazard to others.
- (B) HEADPHONE jack: Plug headphones with a mini plug (3.5 mm) into this jack.
- (C) COMPONENT input: See P.58.
- (D) AV2 input: Input for analogue A/V-Signal (Composite or S-Video). See P.58.
- (E) PC MONITOR input (PC): See P.54.
- (F) Scart socket (AV1): For the connection of scart cable. See P.56~58.
- (G) PC/HDMI AUDIO input: See P.54, 55.
- (H) HDMI input : See P.55.
- (I) **DVB-T antenna:** Connect a DVB-T antenna if DVB-T is already available in your transmission area. Special versions allow for simultaneous connection of the analogue cable TV network (J). Ask your specialist retailer.
 - The built-in combi tuner receives all analogue cable programmes and DVB-T channels.
- (K) DVB-T Digital audio output: digital output for CD/DVD & DVB-T (see page 57).
- (L) C.I. slot: for DVB-T-PayTV (still no providers at present) (see page 28).
- (M) Bracket holes: Fix a wall mounting bracket (not supplied) here.
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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.56), you would need to tune it in separately according to its own instructions.

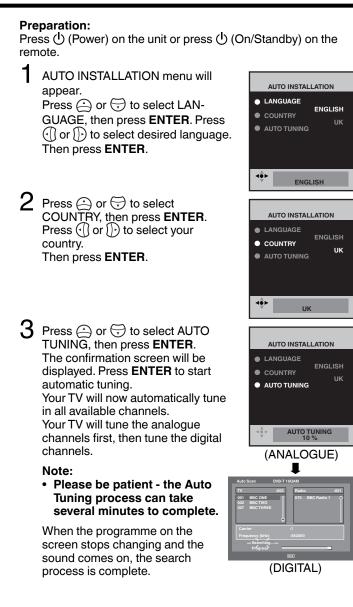


Note:

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- To cancel the Auto Tuning, press **EXIT** during the process.
- If on the "AUTO INSTALLATION (COUNTRY)" screen "UK" is selected, "Move To" cannot be used in UK (see page 26).

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 13 for analogue channels, and page 23 for digital channels).



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It is important to enter "DEUTSCH" in Step 1 and "DEUTSCHLAND" in Step 2 for correct operation of the appliance in Germany.

- The DVB-T tuner arranges the DVB-T channels in an order customary in the country e.g. 1-ARD, 2-ZDF, etc.
- Umlaut vowels in the EPG text are only indicated correctly when country and language (Deutsch) have been properly set.

Quick guide for ANALOG MENU operation/Selecting the video input source/On-screen Language Selection

here.

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

Preparations:

 Turn on the unit with the 也 (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 也 on the remote control again. In standby mode, you can also turn on the unit or $\mathbf{P} + \mathbf{I} - \mathbf{O}$ on the remote control.

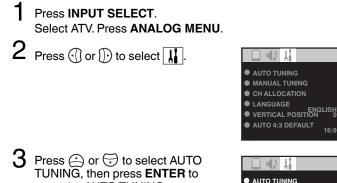
To turn off the unit press 也 (Power) button on the unit - to completely switch it off, disconnect the mains power supply.



Note:

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

Quick guide for ANALOG MENU operation Call ANALOG MENU and for example: Select AUTO TUNING.



enter the AUTO TUNING menu. ... on the following pages the MENU can be called in the same way as

4 Press EXIT to return to the normal screen.

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.

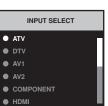
On-screen Language Selection

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



Press (f) or (f) to select the desired language.

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



MANUAL TUNING CH ALLOCATION

AUTO 4:3 DEFAULT

LANGUAGE

12

Automatic station presetting with the built-in Tuner/ Changing the order of stored channels

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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.12). Then press ANALOG MENU.

Select AUTO TUNING, then press ENTER.

Press () or () to select your country,

- AUTO TUNING CH ALLOCATION LANGUAGE VERTICAL POSITION AUTO 4:3 DEFAULT
- Select COUNTRY, then press ENTER. COUNTRY uк • START **d**∎► UK
- Select START. Then press ENTER. 3 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. 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.

then press ENTER.

Select CH ALLOCATION. Then press ENTER. AUTO TUNING MANUAL TUNING CH ALLOCATION LANGUAGE VERTICAL POSITION AUTO 4:3 DEFAULT

Select desired option, then press ENTER.



- After setting the each option, press ANALOG MENU to 3 return to CH ALLOCATION memu.
- Press EXIT to return to the normal screen. Δ

Description about the each setting option:

SORT: Press (or ; to select the channel that you want to move, then press ENTER.

Press \triangle or \bigcirc to select the position that you want to move the channel to, then press ENTER.

ERASE PROGRAM: Press \bigcirc or \bigcirc to select the channel that you want to erase, then press **ENTER**.

SKIP: Press \bigcirc or \bigcirc to select the channel that you want to skip, then press ENTER. * mark will appear.

CH LABEL: Press \bigcirc or \bigcirc to select channel that you want to rename, then press **ENTER**. Press \bigcirc or \bigcirc to select character, then press () or (). The cursor will move to the next position. Press ENTER to set the channel label.

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Note:

- To restart digital auto tuning, see page 23.
- When the COUNTRY is set to UK, the automatic tuning will search for UHF broad-casts only.
- When changing the order of the channels, it is best to start with Ch1.

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 ZDF into memory-cell 2.

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Preparation: connect analog rf-cable-supply. Select ATV (see page 12). Select memory-cell 2. Press key 2 (see page 15). OSD will indicate 2 in right upper corner. Eventually recently stored TV-channel's name might also appear.

• AUTO TUNING

LANGUAGE

MANUAL TUNING CH ALLOCATION

11 () I

COLOUR SYSTEM

SOUND SYSTEM

• COLOUR SYSTEM

SOUND SYSTEM

ZDF

COLOUR SYSTEM SOUND SYSTEM

ZDF

• SEARCH

• FINE

⊲Ô⊳

• SEARCH

• FINE

4 **.**

•

VOX 168.30MHz AUTO

168.30MHz

168.30MHz

175.30MHz

175.30MHz

175.30MHz

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AUTO

SEARCH • FINE

- 2 Press ANALOG MENU. Press 🕑 or (1) to select tool-page (see here). Press (a) or (c) to select MANUAL TUNING. Press ENTER.
- COLOUR SYSTEM and SOUND SYSTEM has already been preset to AUTO. Do not touch.
- 4 Press (a) or (c) to select SEARCH. Press ENTER. Press ① or ①-key, to start tuning. Tuning will stop automatically at next available station. If this does not happen to be the ZDF, press () or ()-key again to continue tuning for the ZDF. 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.

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.

14

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.13).



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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

 $\mathbf{P} \leftrightarrow \mathbf{P}$ button allows you to go back to the last selected channel.

Volume adjusting

Press — + or – to adjust the volume. The volume level indicator disappears after 4 seconds.

MUTE

Press K. The sound will be cut off. MUTE will appear for approx. 4 seconds. The muting can be released by pressing K again or - + or -.

Information display

In the analogue TV mode: Press \mathbf{i} . Channel number and picture size setting will appear for approx. 4 seconds. In the digital TV mode: Press \mathbf{i} . The program information will appear (see 'Channel banner' on page 29).

STEREO	1 ARD
AUTO	

SLEEP TIMER

To set the sleep timer press X. SLEEP and the minutes until shut-off will appear. Each time you press X the SLEEP time shown will change. When the displayed time runs out, the unit will switch to standby. The display will disappear after approx. 4 seconds

To cancel the sleep timer:

Press \overline{X} repeatedly until '0' appears.

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 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.

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Teletext

Teletext is sent page by page. This unit is able to automatically store up to 10 pages, but they can only be accessed once they have been stored. This can take a few moments.

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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.

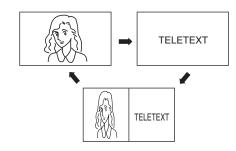
Switch on / off Teletext

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 \blacksquare again in order to switch off teletext. Press \blacksquare again in order to switch on teletext again. The last page which was stored is now shown.



Note:

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• 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.

Hold Pages

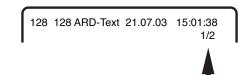
Some pages are divided up into subpages by the channel.

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.



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 I 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 I in order to show the answers.

Page 100

Press ENTER in order to show page 100.

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Stereo reception with the built-in analogue tuner

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

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PICTURE SIZE

RETURN

AUDIO

ZOOM

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ENTER

DIGITAL MENU

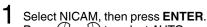
 $\overline{\mathbb{X}}$

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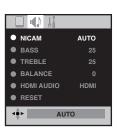
EPEAT /

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NICAM stereo sound reception:

Press () or () to select AUTO or OFF. Select OFF if you do not want to receive NICAM sound.



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

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

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

Stereo reception in Germany

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

STEREO

NICAM ST

NICAM M1

NICAM M1 / M2

NICAM OFF

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

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

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



2-channel sound reception in Germany



SOUND 1 / 2



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Note:

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

50Y1446A ENG.indd 17

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.

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	Broadcast media						
Resolution of the wide screen signal	Analogue cable TV	Digital cable TV	DVB-T	Satellite (DVB-S)	DVD	HDTV Satellite (DVB-S2)	BlueRay- 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

The best picture quality is achieved if the supplied resolution received corresponds approximately to the resolution of the TV being used. The TV19PL145DVD/TV19PW145DVD has a resolution of 900x1440. The best picture quality is therefore achieved with a picture signal of 1080ix1920. The resolutions 720x1280 and 576ix704 also generate good, sharp images.

The low resolution of analogue cable TV is not recommended for HD-ready equipment, as it gives the poorest picture quality visually. However, analogue cable TV is altogether sufficient for cathode ray tube TVs and their low resolution of just 576ix704.

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.

If a 4:3 picture is increased then it either appears distorted (see image) or some of the picture is cut off at the top and bottom. This is completely normal and is not a fault in the wide screen TV.

The resolution of the film being received is often lower than the resolution of the TV set. The film must therefore be expanded after being received in order to completely fill the screen. The TV19PL145DVD/TV19PW145DVD can present 16:9 films from below and up to a resolution of 576ix704 (anamorphic, see next page) without black bars. If the received resolution of the 16:9 film is too low (432x704 or lower) then black bars remain at the top and bottom. Letterbox films (see table) are therefore always displayed on the TV19PL145DVD/TV19PW145DVD with black bars at the top and bottom.

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 TV19PL145DVD/TV19PW145DVD 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.







4:3 picture zoomed on 16:9 screen



Letterbox picture 1:1 on 16:9 screen



Letterbox picture zoomed to the maximum on the screen of the TV19PL145DVD/ TV19PW145DVD

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Picture format

The desired picture format can be selected using the **PICTURE SIZE** button. Press **PICTURE SIZE** until the required format is displayed.

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Note: Each time the button is pressed the screen goes dark briefly before it appears in the desired format. The following formats are displayed in series: AUTO, 4:3, FULL SCREEN, 16:9, CINEMA, 14:9.

AUTO

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If the integrated DVB-T tuner receives anamorphic programmes then the picture appears in filled format without black bars.

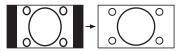


Figure 1: Anamorphic 4:3 picture, automatically increased to 16:9 format.

If the analogue tuner receives a letterbox picture with WSS signal, then the resulting picture appears as follows: The remaining black bars at the top and bottom are normal.



The following notes provide a better understanding of the 16:9 format:

Two TV formats can currently be received in Germany: 1. SD-TV, 2 and HD-TV. SD-TV (standard definition) corresponds to traditional TV and can be received via analogue cable, digital cable, DVB-T, satellite and sometimes via terrestrial aerials.

HD-TV (high definition) corresponds to the new high definition digital TV and can be received via DVB-S2 and sometimes via digital cable.

SD-TV programmes are always broadcast in 4:3 format, even when these are true 16:9 productions. The 16:9 format is produced in the TV receiver afterwards. Therefore the TV receiver must receive an anamorphic 4:3 picture. This picture is pre-distorted accordingly before being broadcast (see figure 1). After the TV receiver has uncompressed the anamorphic picture to the full 16:9 width, the distortion is cleared and the viewer watches a 16:9 picture without black bars. So that the uncompression can take place automatically, the broadcasting stations which are subject to public law broadcast a 16:9 identifier with the WSS signal (wide screen signalling). Anamorphic 4:3 broadcasts can be received anywhere except in analogue cable.

Analogue cable also uses a WSS signal. As no anamorphic images are offered here, the 16:9 programmes from ARD and ZDF are shown with black bars (see above).

Most private broadcasting stations do not send anamorphic pictures or WSS signals. Their 16:9 films are always broadcast in small letterbox format in low resolution with only 432 lines. Without WSS signals the AUTOmatic does not recognise anything and does not change the picture size automatically. In this case, adjust the desired picture size manually using the PICTURE-SIZE button.

If AUTO is set then the integrated tuner checks whether the WSS signal is available after each change to another programme. If the WSS signal is rediscovered then the picture goes black for a short time.

If the short fading out of the picture is disrupted by the WSS signal, then switch AUTOmatic off. Press the PICTURE SIZE button until the desired format appears, e.g. 16:9.

Picture format

TV/DVC

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PICTURI

RETURN

ZOON

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ENTER CH LIST

DIGITAL MENU

TOP MEN

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Other formats

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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.

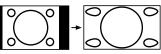
Full Screen

Use this format if required.

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.

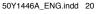
14:9

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.

Note:

- The picture size cannot be adjusted in PC operation.
- For 720p and 1080i signals the PICTURE SIZE button does not work.
- External receivers can automatically adjust the picture size via a SCART cable. Please read the instructions for the external receiver.

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Other convenience functions

You can change the default settings to convenience use.

Icon	Selected	litems	Setup hint		
	PICTURE	SPORTS	Bright and dynamic picture (factory-set)		
	PREFERENCE	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 TEMPE	RATURE	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 17.		
	BASS / TREBLE /	BALANCE	You can adjust the sound quality to your preference.		
	HDMI AUDIO		See page 55.		
	RESET		Select "RESET" to reset BASS, TREBLE and BALANCE to the factory preset values.		
Å ∎	AUTO TUNING		See page 13.		
	MANUAL TUNING		See page 14.		
	CH ALLOCATION		See page 13.		
	LANGUAGE		See page 12.		
	VERTICAL POSITION		When the CINEMA mode is selected (see page 20), 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 *	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.		
	AV1 OUTPUT		See page 59.		
	AV COLOUR		See page 59.		
	REC SCREEN STATUS	ON / OFF	This function is used in conjunction with the Timer function that is included as part of the Digital EPG. It determines whether the TV screen switches on or not when a programmed Timer setting begins - see page 32 for further details.		
	RESET 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.		

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Note: * AUTO 4:3 DEFAULT is available only for AUTO picture size setting. * In COMPONENT mode, AUTO 4:3 DEFAULT is available only for 480i/576i mode.

Remarks on DVB-T system

DVB-T is at present still being developed. You can get information regarding the current stage of development on http://www.ueberall-tv.de or from your specialist retailer.

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As a digital service DVB-T basically works differently to previous analogue TV reception.

Reception Possibilities:

In contrast to cable TV, DVB-T is received via room or roof antennas. A room antenna is sufficient for reception within the reception area of a DVB-T transmitter. A roof antenna may perhaps be necessary for reception in a fringe area. Existing roof antennas may have to be turned in a different direction.

Contact your specialist retailer or go to http://www.ueberall-tv.de to find out about the location of the reception areas or fringe areas. You cannot get DVB-T reception outside the fringe area. Ask a certified antenna specialist for advice on interference with reception. The tuner of this appliance cannot provide active room antennas with operating voltage. Active room antennas have to be equipped with a separate power supply.

Reception Quality:

DVB-T reception principally either works really well or not at all. There is not a smooth transition with a constant reduction in reception quality. Digital interference occurs at maximum reception range:

the image freezes, the picture becomes blocky, the sound breaks up or reception cuts out altogether at times. If you notice interference with DVB-T reception then this is usually not due to a fault on the TV appliance. Please contact an antenna specialist if you have interference with reception. Inspection of the quality of DVB-T reception is not included in the free warranty to be provided by the manufacturer of the TV appliance.

Image and Sound Quality:

An individual transmitter transmits up to 4 TV channels on one transmission frequency. This is possible through compression in accordance with the MPEG standard, which is similar to digital data storage on a DVD. The data rate of DVB-T is just a lot lower; at present the max. video bit rate is approx. 4Mbps and the max. audio bit rate is at 256kbps. Visible interference (e.g. blocky picture) can result at extremely low data rates despite there being excellent reception quality within vicinity of the transmitter. Blocky pictures are no fault of the receiver. They are the result of the low data rate transmitted. The digital DVB-T sound can be transmitted to the digital amplifier via the digital output of your TV set.

Image Format

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Images are transmitted in 4:3 format, 4:3 letterbox format (with black bars above and below the picture) and anamorphic 16:9 format (without black bars). The max. transmitted resolution at present is 704x576.

Encryption

Encryption is basically possible, but no DVB-T channels are as yet encrypted. A CAM module and an access card are necessary to receive encrypted channels. You can get CAM modules from your specialist retailer and access cards from the respective broadcasting company. The CI slot in this appliance accepts CAM modules and therefore allows for the reception of encrypted channels.

Child Lock

Like DVDs, DVB-T offers can also provide age-restricted access. At the moment, no channels are equipped with this restriction. This appliance does, however, already offer the feature of setting up password protected age restrictions, which only work when the respective programmes are broadcast.

DVB-T Radio

The DVB-T norm stipulates radio programme broadcasts. Initial trial broadcasts have already taken place in the Berlin area. No DVB-T radio is as yet being broadcast in the remaining parts of the country. This appliance is, however, already equipped for DVB-T radio reception.

DVB-T Update

The DVB-T norm earmarks the transfer of firmware updates. The transfer of firmware updates is called Over Air Download or OAD for short.

If this product happens to require a firmware update in future, this update could be received via DVB-T. No decision has as yet been made in Germany as to which channels should transmit updates at which time of the day. This appliance is, however, already equipped with OAD, although these questions have not yet been answered. If OAD is offered by a channel in future, you could find more information on this in teletext or on the internet, for example, on http://www.ueberall-tv.de.

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Language Setup/Auto Scan

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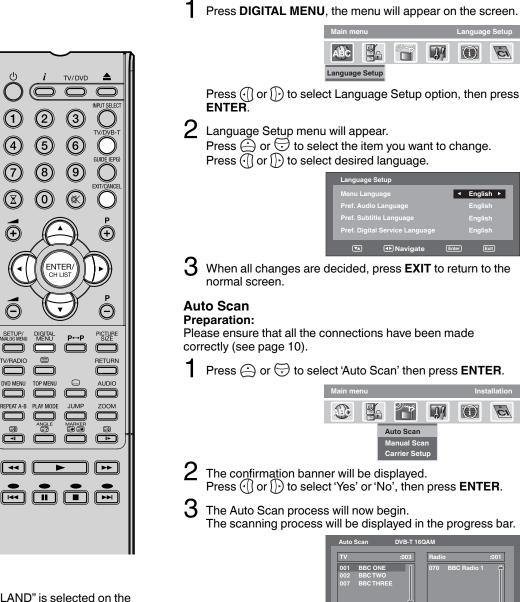
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◄ English ►

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Language Setup/Auto Scan Preparation:

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



Note:

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- 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.



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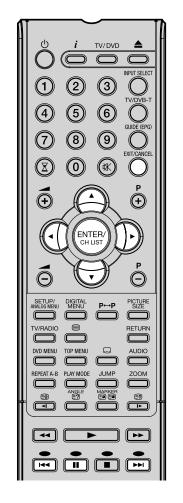
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Manual Scan/ Carrier Setup

Manual Scan

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



Note:

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- 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 (M) and press ENTER
- If "FINLAND" is selected on the "AUTO INSTALLATION (COUNTRY)" screen, Data is displayed on the "Carrier Setup" screen.

- Press (A) or (I) to select 'Manual Scan', then press ENTER. 17 (i)Manual Scan You can choose the carrier number from the Channel list by using $\langle (] \text{ or } [] \rangle$ and the corresponding frequency set for the carrier will be set for tuning. Otherwise you can Ianual Scan also directly enter the frequency value to start the tuning. 🔹 🔹 Navigate 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 ① or ⑦ to select 'Yes' or 'No', then press ENTER. 5 Press EXIT to return to the normal 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. Press (a) or (b) to select 'Carrier Setup' then press ENTER. 17 10 Ře (i)Carrier Setup
 - 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.

B Rename:

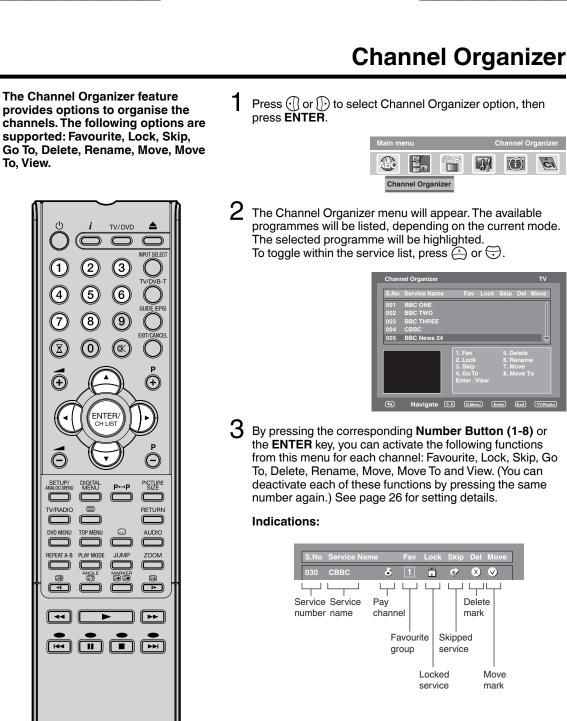
Select carrier, then press **Red** button. The alphanumeric keypad will appear. You can rename a service as per your preference (see page 26).

Delete:

Select carrier, then press **Green** button. The check mark (\bigcirc) will be displayed for selected carrier. Then press **ENTER**. The confirmation banner will be displayed. Press \bigcirc or \bigcirc 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.



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Note:

To, View.

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- 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.

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Setting details

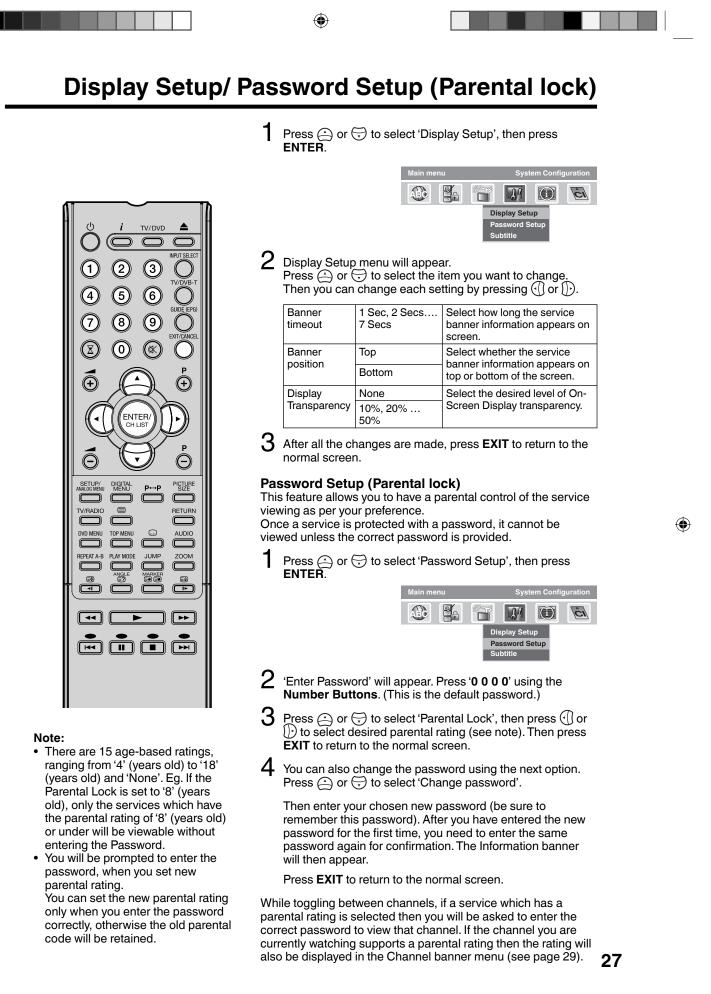
-							
	None	Assign services to four different favourite groups. ① Press ▲/▼ to select the desired service.					
Fav *1	Fav1	 Press 1 on the remote control. A selection box displays. 					
	Fav2	③ Press ▲/▼ to register the selected service to any of the four favourite groups (None,					
	Fav3	Fav1 Fav4) and then press ENTER. An icon displays indicating the favourite status. Press DIGITAL MENU.					
	Fav4	(5) Now you can easily select your favourite service from the Channel List (See page 29).					
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 2 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 2 will turn the lock icon on and off. (PIN entry is required.) ③ Press DIGITAL MENU. 					
Skip		 Services browned metro. Services that are set to skip will not be picked up when pressing P +/ Press ▲/▼ to select the desired service. Press 3 on the remote control. An icon displays indicating the service to be skipped. Pressing 3 will turn the skip icon on and off. 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 4 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 5 on the remote control. An icon displays indicating the service to be deleted. Pressing 5 will turn the delete icon on and off. ③ Press DIGITAL MENU. A confirmation message displays. ④ Press ④ Press 					
Rename		 Change individual service names. ① Press ▲/▼ to select the desired service. ② Press 6 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 7 on the remote control. An icon displays indicating the service to be moved. • Pressing 7 will turn the move icon on and off. ③ Move the selected service to the desired position using ▲/▼, and then press ENTEF to register the change. 					
Move To *2		 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. 					
View		 Change to the service shown in the picture window. ① Press ▲/▼ to select the desired service. ② Press ENTER on the remote control. The image shown in the picture window changes. ③ Press EXIT to exit the Channel Organizer screen to view the image in full screen 					

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Note:

^{*1} You cannot register the same service to two different favourite groups.
 ^{*2} If on the "AUTO INSTALLATION(COUNTRY)" screen "UK" is selected, "Move To" cannot be used in U.K.

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Version

You can check the software and hardware versions.

Press (a) or (b) 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.

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 ① or ①, 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.

Common Interface

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

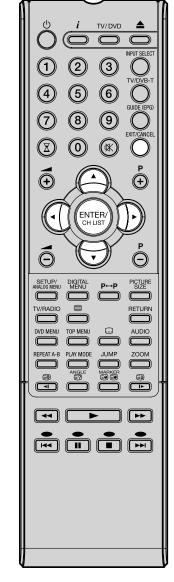
Preparations

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

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



Note:

- During the Software Updating process, do not turn off the unit. At this time you cannot use any of the buttons, apart from \bigcirc (STANDBY).
- After the Software Updating process, the Digital Menu memory settings will be lost, so it is necessary to go through the setting up procedures again.

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Channel list/Channel banner

Channel list

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Press CH LIST to display the Channel list menu.



2 Select the Channel group (Favourite):

Press (() or ()) to select between Channel groups - you can toggle through All (complete channel list)/Fav1/Fav2/Fav3/Fav4 (see 'Favourite' on page 26 for details on setting Favourites).

Select the Services:

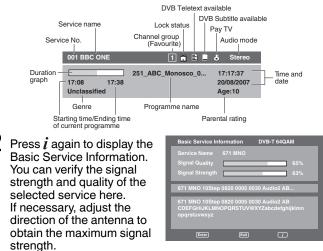
List of the services present under the selected Channel group will be displayed in the left side of the menu. Press \bigcirc or \bigcirc to toggle within the service list, then press **ENTER**.

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.

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.

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 27).



- When the Country setting has been set to FINLAND, press *i* once more to display the advanced detailed information.
- ${\tt 3}$ To remove the Channel banner immediately, press i again.

Note:

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- If any Channel group doesn't have any service at the time, 'No services' and 'No Information' will be displayed in the menu.
- The displays of Channel / Service name will be abbreviated depend on its size of the letter.
- Subtitles are displayed on the channel banner. Some broadcasts may not provide this service.

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Multi audio/DVB-Subtitle

Multi audio

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You can select your preferred Audio mode and DVB (digital TV) subtitle Language.

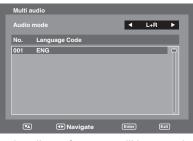
The Multi audio menu will display the Audio mode and Language options available with the current broadcast.

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



2 To select Audio mode, press (1) or (1). In general the below audio modes will be supported in a service. Stereo, Left, Right and L + R.

To select a Language code, press \bigcirc or \bigcirc to select code within Language code list.





Press EXIT. Your selected audio preferences will be saved.

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.

Press or to select "Subtitle", then press **ENTER**.



Press ① or ② to select your desired subtitle language from the available languages.

Language	◄ English	Þ
● Navigate	Enter	Exit

To turn off the DVB-Subtitle, press ① or D repeatedly until 'Off' appears in the Subtitle menu. Press EXIT. Your selected subtitle language will be saved.

TV/DVD C 2 (3 5 6 4 9 8 $\overline{\mathbb{X}}$ \bigcirc $\overline{(+)}$ (+)ENTER Ē E DIGITA MENU PICTURI SIZE V/RADIC RETURN DVD MENU TOP MEN AUDIO EPEAT A-E PLAY MOD JUM ZOOM Ð •

Note:

 DVB-Subtitle can also be changed by pressing of repeatedly.

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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.



Press **GUIDE(EPG)** to display the Guide menu.



Highlighted programme

Service list :

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Lists all the services that are currently available. As you scroll through the service list by pressing \bigcirc or \bigcirc , 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. Event title will be displayed only if available otherwise 'No Description' message will be displayed.

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

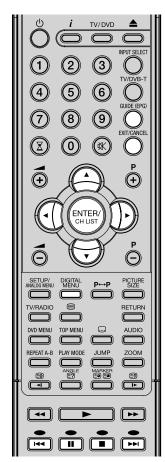
The Guide/Description menu shows the extended event description of an event. You can scroll and view the complete event description of the event using \bigcirc or \bigcirc .

To return to the Guide menu, press \mathbf{i} . To clear the menu screen, press **EXIT**. ۲

EPG Timer

You can choose whether or not the screen switches on when the timer event begins - please see page 21 (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.

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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).
- The confirmation banner will be displayed. Press () or () to select 'Yes' or 'No', then press **ENTER** (the selected option is shown in blue).
- The EPG Timer menu will appear. Press the **Red** key to set the Timer mode for a selected event.



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.

E	vent Timer		
Se	ervice Nam	ne Mode	Date
BI	BC ONE Once Daily Week	Once	26/02

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:

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- 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.

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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

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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.

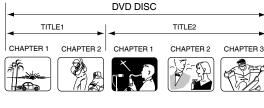
- Video CD not equipped with PBC function
- (Version 1.1) Sound and movie can be played on this DVD/VCR in the same way as an audio CD.
- Video CD equipped with PBC function (Version 2.0) In addition to operation of a Video CD not equipped with the PBC function, you can enjoy playback of interactive 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 unit "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 unit "PBC" appear.









Playing a disc

TV/DVD

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ENTER/

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PICTURE SIZE

RETURN

AUDIO

ZOOM

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DIGITAL MENU

TOP MENU

PLAY MOD

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DVD MENU

EPEAT A-E

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

Basic playback (DVD/VCD/Audio CD) Preparation

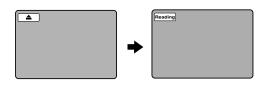
Make sure that the \bigcirc (**POWER**) switch on the unit is pushed in (ON). (The \bigcirc (On/Timer/Standby) indicator lights up.)

- 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.)

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- 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 \blacksquare 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).

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.

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Playing a disc

To pause playback (still mode)

Press II during playback. To resume normal playback, press PLAY (>).

The sound is muted during still mode.

To stop playback

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Press

To remove the disc Press **A**.

Remove the disc after the disc comes out.

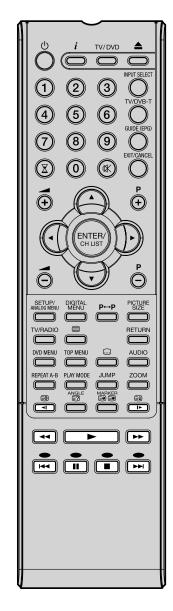
Note:

- 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 33 and 51).
- 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 33.
- 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.



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Playing a disc



Note:

 A prohibition symbol "X" 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.

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You can play discs at various speeds.

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

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Note:

- The unit mutes sound during reverse and forward scan of DVD/VCD/Audio CD discs.
- The playback speed may differ depending on the disc.

Playing frame by frame (DVD/VCD) Press II during still playback.

Each time you press **II**, 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 I► during playback. Each time you press ◄ or I►, 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.

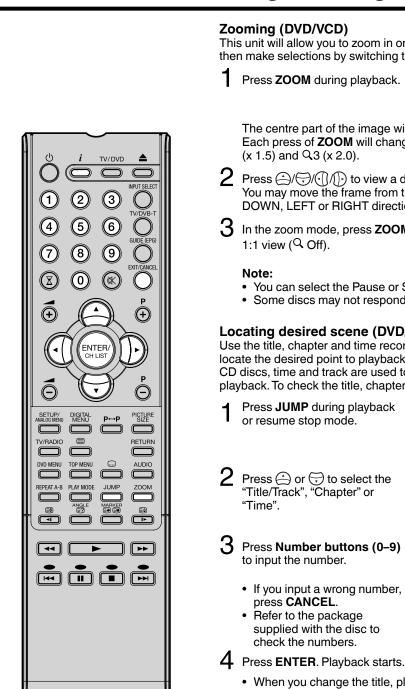
Locating a chapter or track (DVD/VCD/Audio CD)

Press I or **>>** I repeatedly to display the chapter or track number you want.

Press **I** to playback starts from the selected chapter or track.

Press I to locate succeeding chapters or tracks.

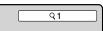
Playback starts from the beginning of the current chapter or track.



Zooming/Locating desired scene

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

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Jump

Jump

Jump

12

Title

Time

Title

Time

Title Chapter

Time

Chapte

Chapter

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

- 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.
- ${f 3}$ In the zoom mode, press **ZOOM** repeatedly to return to a
 - 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.

- Press Number buttons (0-9)

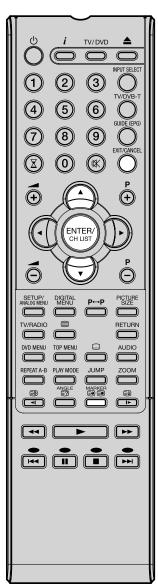
- · When you change the title, playback starts from Chapter 1 of the selected title.
- Some discs may not work in the above operation.

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 33).

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Marking desired scenes

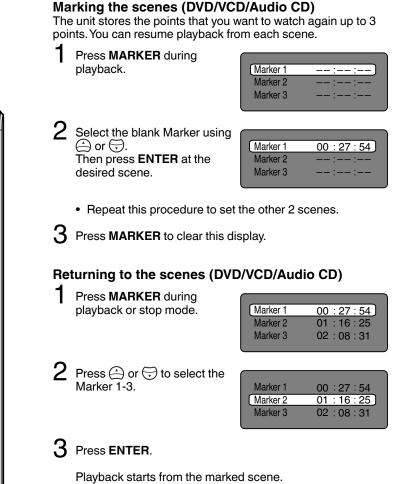


Note:

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- 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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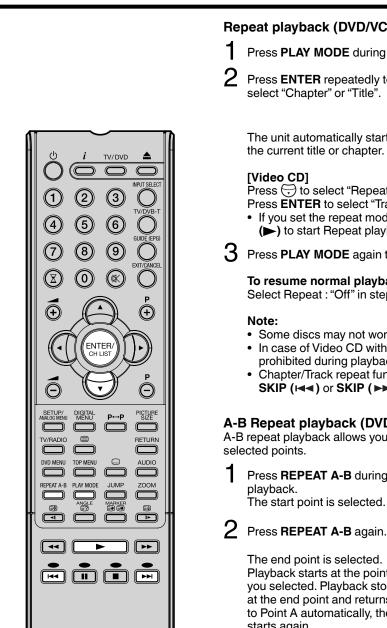
Flayback starts nom

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To cancel the Marker

Follow the above steps 1~2, then press CANCEL.

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Repeat playback/A-B Repeat playback



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- Press PLAY MODE during playback or stop mode.
- Press ENTER repeatedly to select "Chapter" or "Title".



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.

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





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.



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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.

Press ANGLE repeatedly until the desired angle is

Press ANGLE during playback.

The current angle will appear.

1/2

2

TV/DVD

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ENTER CH LIST (+)

E

PICTURE

RETURN

AUDIO

ZOOM

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DIGITA MENU

TOP MENU

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V/RADIC

DVD MENU

EPEAT A-E

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selected.

 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.

- Press **TOP MENU** during playback. Title menu appears on the screen.
- **2** Press $(\sqrt{2} / \sqrt{2} / \sqrt{2})$ to select the desired title.

3 Press ENTER or PLAY (►).

The playback of the selected title will start.

Note:

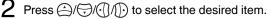
 Some DVDs allow you to select the disc contents using the menu.

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.

- 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.



3 Press ENTER.

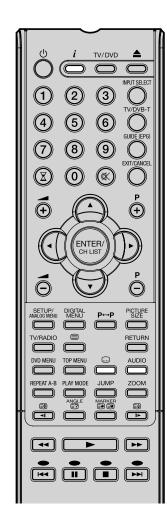
The menu continues to another screen. Repeat steps 2 and 3 to set the item completely.

Note:

 Depending on the DVD, you may not be able to resume playback from the scene point when you press DVD MENU. $(\mathbf{ })$

Changing soundtrack language/Subtitles/Disc status

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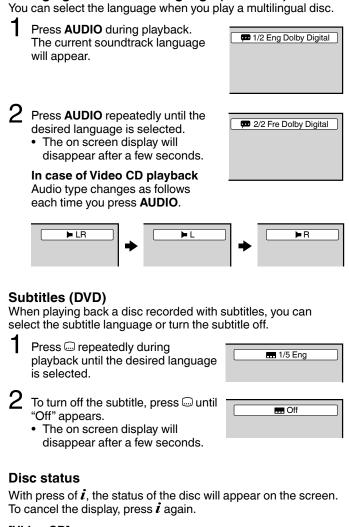


Note:

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- 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.
- If you select DTS in playing DTSencoded disc, no sound will be heard.
- 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.

Changing Soundtrack Language (DVD/VCD)



[Video CD] DISC ELAPSED TOTAL OPERATION TIME TIME VCD 00:08:32 00:51:03

TRACK NO.

[DVD] DISC ELAPSED TOTAL OPERATION TIME TIME TITLE NO. UDD LANGUAGE A KIND OF AUDIO

41

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 guality.

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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:

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- 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

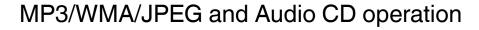
32kbps ~ 320kbps (constant bit rate or variable bit rate)

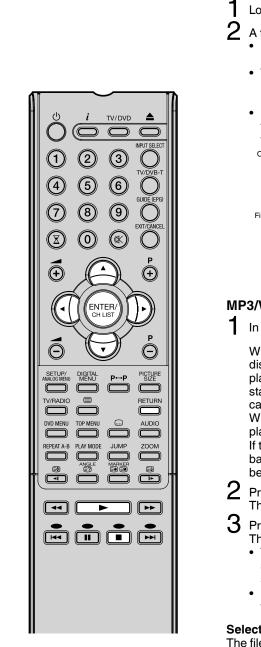
The recommend recording setting for a high-quality sound is 44.1kHz of sampling frequency and 128kbps of constant bit rate.

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. $(\mathbf{ })$





Note:

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- MP3 or WMA file on the Kodak Picture CD is not recognized on this unit.
- 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 pages 45,46)

Loading CD

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- Load a MP3/WMA/JPEG CD or an Audio CD into the disc slot. A file browser screen will appear on the screen. · In case the current directory includes 9 files or more, press \bigcirc or \bigcirc 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 " D 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 Ø /MP3-5.MP3 MP3-5 Tool kit peat window File list File type : Indicates Music file (Audio CD/MP3/WMA) : Indicates Picture file Ю
- MP3/WMA and Audio CD playback

Cursor

In the file browser, press $(-)/\overline{\overline{\overline{y}}}$ to select the desired file.

Preview window

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.



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(JPEG)

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.

- Press ENTER.
 - The selected file starts playing back.
- - The selected file starts playing back.
 - The unit records the stopped point. " \blacktriangleright " 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 \bigcirc or \bigcirc 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.

MP3/WMA/JPEG and Audio CD operation

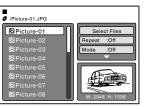


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In the file browser, press $(-)/\overline{(-)}$ to select the desired JPEG file.

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.

" H→ ", " H• ", " + " or " ↓ " appears on the screen.

Zooming an image

Zoom function also can be used in viewing JPEG files. Press **ZOOM** (See "Zooming" on page 37).

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

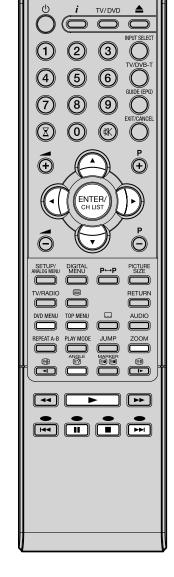
Slide show playback

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 50).

- 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 II during the slide show, the slide show stops temporary. "II" appears briefly on the screen.
 - If the picture appears upside down or sideways, press
 ANGLE repeatedly until it's right side up. " → ", " F "
 - "+" " or " i appears on the screen.
 - Press PLAY (►) or SKIP (►►I) 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.

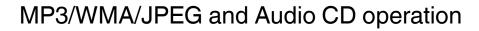


Note:

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- 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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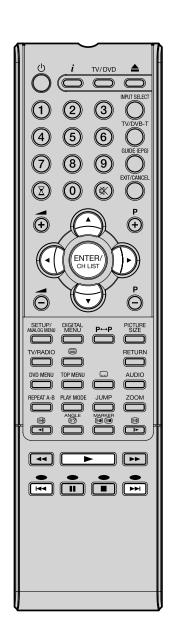
2

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Press PLAY (>).

The Random playback will start.

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



11010.

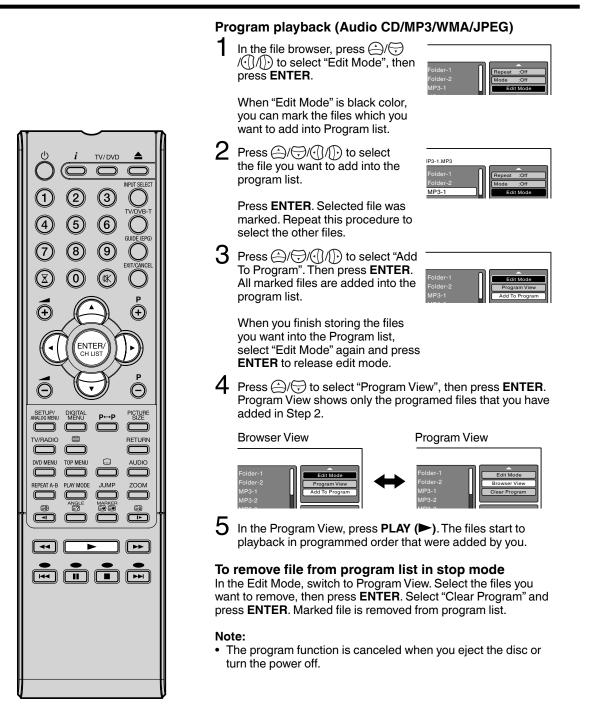
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- · The repeat or random function is canceled when you eject the disc or turn the power off.
- · The track repeat function is canceled when \blacksquare or \blacksquare is pressed.
- In case of Audio CD, the function of • A-B Repeat also can be used. See "A-B Repeat playback" (See page 39).

- Repeat playback (Audio CD/MP3/WMA/JPEG) In the file browser, press (]/[) to select "Repeat" during stop mode. Press ENTER repeatedly to select "Track" or "All". Press PLAY (>). The unit automatically starts repeat playback after finishing the current track. To resume normal playback Select Repeat : "Off" in step 2. Random playback (Audio CD/MP3/WMA/JPEG) In the file browser, press (-)/(-)/(-) to select "Mode" during stop mode. Press ENTER to select "Random".



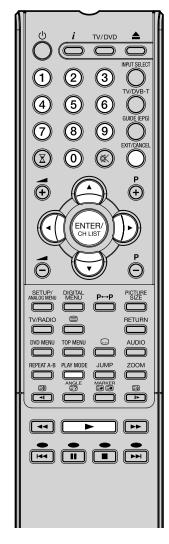
MP3/WMA/JPEG and Audio CD operation





Program playback/Random playback

You can arrange the playback order of tracks or files on the disc. And the unit can also select tracks or files at random and playback them. These feature works for Video CD. For Audio CD and MP3/WMA/JPEG CD, please see "Random playback (Audio CD/MP3/WMA/JPEG)" on page 45 and "Program playback (Audio CD/MP3/WMA/JPEG)" on page 46.



Note:

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- 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.

Program playback (VCD)

- Press PLAY MODE during stop mode.
- Press (A)/(To to select "Mode", then press ENTER to select "Program".
- 3 Press (∬/()) to select the programming position. Use Number buttons (0–9) to input the track numbers on sequentially.



Play Mode Mode : Program Repeat : Off Program Playback

	Play Mode			
Mode	: Program	6	9	٦
Repeat	: Off	2		
Prog	ram Playback	3		

- If you input a wrong number, press CANCEL.
- 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

- 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 \bigcirc / \bigcirc to select "Clear Program". Then press **ENTER**.

Random playback (VCD)

- Press PLAY MODE during playback or stop mode.



B 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.



Customizing The Function Settings

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

TV/DVD

3

6

(9)

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E

PICTURE SIZE

RETURN

AUDIO

ZOOM

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ENTER/

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DIGITAL MENU

TOP MENU

PLAY MODE

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SETUP/ IALOG MENL

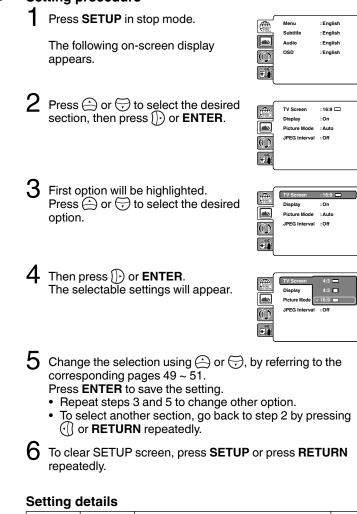
V/RADIO

DVD MENU

REPEAT A-B

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Setting procedure



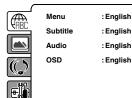
• To s	select anot	her section, go back to step 2 by presi N repeatedly.	sing
6 To cle repea	tedly.	screen, press SETUP or press RETU	RN
Section	Option	Details	Page
	Menu Subtitle Audio	To select the language of "Menu", "Subtitle" and "Audio" if more than one languages are available on the disc.	-
[KHRL]	OSD	To select a preferred language for on screen display.	49
	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.	
	Dicture	To coloct a proferred picture mode from	

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.	
CHRF	OSD	To select a preferred language for on screen display.	49
	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".	
	JPEG Interval	To select a preferred setting for the slide show playback.	
	Night Mode	To select On or Off for Night Mode.	50
(()	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.	51
L.	Password	To change the password.	



Customizing The Function Settings





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 53).

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.

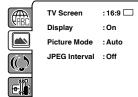
OSD

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



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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* and JUMP.
- **On:** On screen displays appear when you press the buttons (factory setting).

49

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Customizing The Function Settings

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.

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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

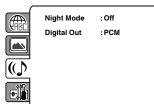
You can continuously playback all JPEG files automatically. After the selection below, the disc will start playback on JPEG files which have been recorded.

Off:	Plays back one file at a time.
5 Seconds:	Plays back images in the form of

- 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.



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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.

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

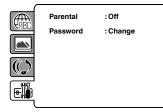
You can select the digital output sound format corresponding to your system connection.

- 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.





Parental

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

Customizing The Function Settings

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

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**.
- Press ▲ to activate Parental control setting.

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Note:

- If each setup (pages 49 ~ 51) 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

- Press Number buttons (0-9) to input the current password (If the password has not been set yet after you purchase this unit, it is "0000").
- Then press ENTER. "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 \triangleq 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").

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Temporary cancel the rating level by DVD disc

appear.

RETURN.

correct.

Enter the password with

Number buttons (0-9).

Then press ENTER.

2

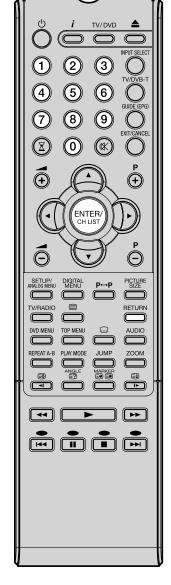
З

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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.





- 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.

"YES" with the ENTER key, password input screen will then Enter Password

To exit from the entry, press Playback will commence if the entered password was

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

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Language Code List

Language Name	Code	Language Name	Code	ngs "Menu", "Subtitle 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

As PCs are sometimes supplied with a 'conventional' CRT monitor, you may need to adjust the display settings of your PC's graphics card, otherwise the pictures may not appear correctly. Switch on your PC (still with your original monitor) - select '1280 x 768' for the screen resolution, and select 60 Hz for the on-screen refresh rate. Switch off your PC, then connect it to your LCD TV while both items are still switched off.

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Select PC input

Switch on the LCD-TV. Select the PC input mode (see page 12).

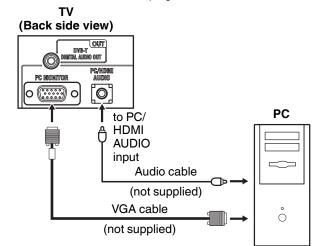
Note:

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- If no signal or a signal with a nonsupported 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	720x400	70
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.



Example: Adjust the contrast.

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

BRIGHTNESS	
• CONTRAST	40
HOR POSITION	
• VER POSITION	
• PHASE	
• CLOCK	

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- 2 Select CONTRAST, then press ENTER. Press ① or ⑦ to adjust CONTRAST.
- 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 ① or ① 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 🕕

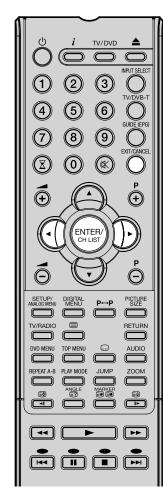
BASS/TREBLE/BALANCE: Tone setting menu. **RESET:** Press **ENTER** to reset BASS, TREBLE and BALANCE to the factory preset values.

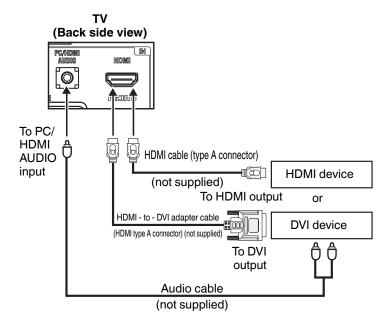
Connecting an HDMI or a DVI device to the HDMI input

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.12).





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.

Select HDMI AUDIO then press ENTER. Press ① or ⑦ to select HDMI or DVI.



Note:

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- 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.

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

2 Press EXIT to return to the normal screen.

Note:

• 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 12 (Select Video Input).

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.

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Pls connect your satellite-receiver or DVD player via SCART. Make sure your SCART cable's crosssection 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

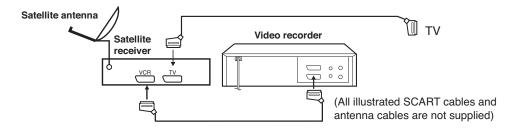
TV-Format: 16:9

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.

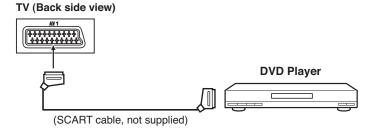
In case you need help to make this adjustment with your satellite-receiver / DVD-player, pls consult the related instructions or contact the supplier or maker of those apparatus for support.

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.

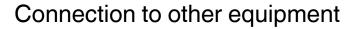
If the TV does not automatically switch to AV-1, please select INPUT AV1 manually, as seen on page 12.



2. Connecting a DVD player



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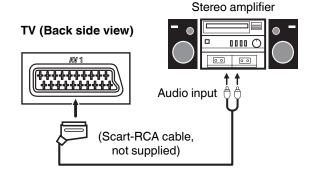
3. Connecting an audio system

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).

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Note:

 The Bass/Treble/Balance adjustments (see P.21) only function with the sound from the TV speakers - it does not affect the audio output sockets.



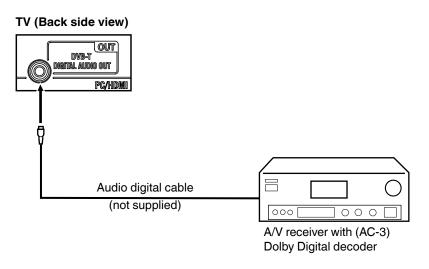
4. Connection of a digital amplifier or digital A/V receivers (with DTS or Dolby Digital Decoder)

DTS and Dolby Digital are two different systems. DTS-DVDs cannot be played with a Dolby Digital receiver. Please use in this case a decoder that matches your DVDs.

Note:

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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.



- 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.
- When a DTS sound track is played the integrated loudspeakers are mute. The DTS sound can only be played digitally using the digital outlet. For hearing a DTS decoder is necessary.
- 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

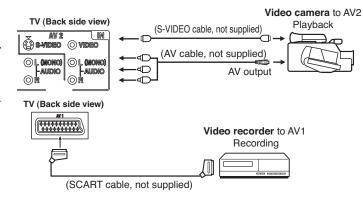
Select the "MONITOR" option in the SETUP menu (see No.7 on page 59). Select the AV2 input mode (see P.12). You can see the playback picture from video camera. This signal is output via AV1 and can be recorded by video recorder.

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

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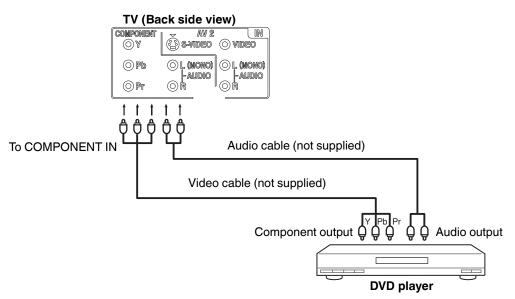
Note:

- 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.
- When you input the PAL-M signal to AV2 input, select AV COLOUR setting to AUTO, otherwise the monochrome images will be displayed.



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.12).

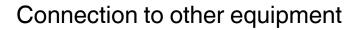


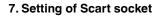
Note:

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• 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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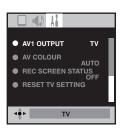


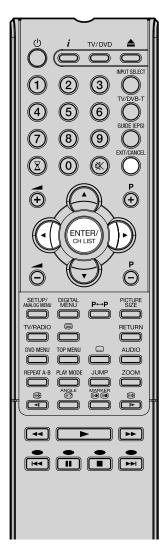


- 1 In II, select AV1 OUTPUT, then press ENTER.
- 2 This determines whether the AV1 outputs the signal from the internal tuner or whatever input is shown on the screen. Press (f) or (f) to select TV or MONITOR.

TV: Outputs the last channel position selected. **MONITOR:** The picture displayed on TV-screen

3 Press EXIT to return to the normal screen.





AV colour adjustment

The AV Colour setting only applies when viewing devices connected to the AV inputs.

- In II, select AV COLOUR, then press ENTER.
- 2 Press 0 or 0 to select AUTO.



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- 3 If AUTO option does not work, press ① or ① to select desired colour (e.g. NTSC 3.58).
- 4 Press EXIT to return to the normal screen.

Note:

• PAL is the colour system used in Germany. NTSC 3.58 is used in the USA, PAL 60 used in Germany handled video recorders, which play NTSC video tape recording.

If the picture shows horizontal stripes: Set to AUTO as the description above.

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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.	10 12
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.	15
In 🔛 menu, the TUNING option cannot be selected.	The unit is set to AV mode. Press 1 on the remote control.	13
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.	23
DVD		
he playback picture has ccasional distortion. The disc is dirty. Eject the disc and clean it. Some times a small amount of picture distortion may appear. This is not a malfunction.		33
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).	34 33
	Place the disc in the disc slot with the label side facing forward. The disc is dirty. Clean the disc. Cancel the parental lock function or change the parental lock level.	34 33 51
\mathbf{X} appears on the screen.	The function is prohibited with the unit or the disc.	36

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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.

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Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

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Specifications

TV			
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, ItaE~G, F1~F6, Rus6~12, E21~E69		
LCD:	18.95" TYPE (48.14 cm visible) TFT low-glass Active Matrix Colour LCD, 1440 x 900 Pixel		
HDMI input:	HDMI compliant (type A connector) HDCP compliant		
	Suggested 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. 60W at AC230V, 50Hz Stand by: approx. 1W at AC230V, 50Hz		
Weight:	4.4 kg		
Dimensions:	48.3(W)x39.1(H)x16.9(D)cm		
Surrounding temperature:	Operation: $5^{\circ}C \sim 40^{\circ}C/Storage: -20^{\circ}C \sim 60^{\circ}C$		
Operating Humidity:	Less than 80%RH		
ACCESSORIES			
2 batteries (AA/R6/UM-3)/Remote control unit/DVB-T antenna/AC cord			

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

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