DAEWOO DE
ELECTRONICS

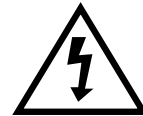# LCD TELEVISION
INSTRUCTION MANUAL

DLT-19W4T
DLT-22W4T
DLT-20J1T
DLT-20J3T
DLT-20J9T

Helpline Number: 0870 100 2525

Caution

⚠	**CAUTION** RISK OF ELECTRIC SHOCK DO NOT OPEN	⚡
	CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute the risk of an electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

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

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

DISPOSAL OF USED ELECTRICAL & ELECTRONIC EQUIPMENT
(Europe only)

The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please dispose of this equipment at your applicable collection point for the recycling of electrical & electronic equipment waste. In the European Union and Other European countries which there are separate collection systems for used electrical and electronic product. By ensuring the correct disposal of this product, you will help prevent potentially hazardous waste to the environment and to human health, which could be caused by unsuitable waste handling of this products. The recycling of materials will help conserve natural resources. Please do not therefore dispose of your old electrical and electronic equipment with your household waste. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

RoHS (Directive 2002/95/EC) Compliant
This environment-friendly product does not contain the EU RoHS restricted substances (Pb, Hg, Cd, Cr6+, PBB, and PBDE).

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Important Safeguards

Please read the following safeguards for your TV and retain for future reference.
Always follow all warnings and instructions marked on the television.

1. Read, Retain and Follow All Instructions

Read all safety and operating instructions before operating the TV. Retain them safely for future reference. Follow all operations and instructions accordingly.

2. Heed Warnings

Adhere to all warnings on the appliance and in the operating instructions.

3. Cleaning

Unplug the TV from the wall outlet before cleaning. Do not use liquid, abrasive, or aerosol cleaners. Cleaners can permanently damage the cabinet and screen. Use a lightly dampened cloth for cleaning.
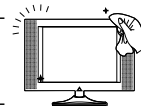
4. Attachments and Equipment

Never add any attachment and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

5. Water and Moisture

The apparatus most not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed very close to the apparatus. Because they may be splashed when watering the plant.

6. Setting

Do not place this TV on an unstable cart, stand or table. Placing the TV on an unstable base can cause the TV to fall, resulting in serious personal injuries as well as damage to the TV. Use only a cart, stand, bracket or table recommended by the manufacturer or salesperson.

7. Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV and to protect it from overheating. Do not cover the ventilation openings in the cabinet and never place the set in a confined space such as a built-in cabinet unless proper ventilation is provided. Leave a minimum 10 cm gap all around the unit.

8. Power Source

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

9. Grounding or Polarization

This TV is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. This is because apparatus with CLASS I construction must be connected to a MAINS socket outlet with a protective earthing connection.

10. Power-Lead Protection

Power-supply leads should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to leads at plugs, wall outlets, and the point where they exit from the TV. MAINS plug which is used as the disconnect device. The disconnect device shall remain readily operable.

11. Lightning

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

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12. Power Lines

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

13. Overloading

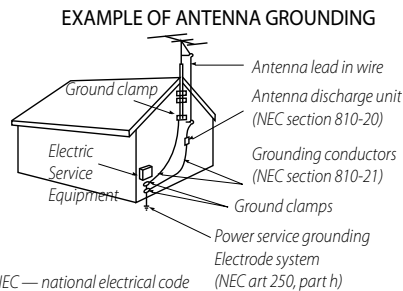Do not overload wall outlets and extension leads as this can result in a risk of fire or electric shock.
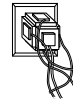
14. Object and Liquid Entry

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

15. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electric Code, ANSI /NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING

Antenna lead in wire

Antenna discharge unit (NEC section 810-20)

Ground clamp

Grounding conductors (NEC section 810-21)

Electric Service Equipment

Ground clamps

Power service grounding Electrode system

NEC — national electrical code *(NEC art 250, part h)*

16. Servicing

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

17. Damage Requiring Service

Unplug the TV from the wall outlet and refer servicing to qualified service personnel under the following conditions:
(a) When the power-supply lead or plug is damaged.
(b) If liquid has been spilled, or objects have fallen into the TV.
(c) If the TV has been exposed to rain or water.
(d) If the TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to its normal operation.
(e) If the TV has been dropped or the cabinet has been damaged.
(f) When the TV exhibits a distinct change in performance - this indicates a need for service.

18. Replacement Parts

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

19. Safety Check

Upon completion of any service or repair to the TV, ask the service technician to perform safety checks to determine that the TV is in a safe operational condition.

20. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

21. Disconnection

Please place the TV set in such a way that the main plug can be easily disconnected.

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This section must be read carefully and followed by the user prior to the operation of the product.
The manual states important instructions for the user's own safety, and the proper operation of the product.

⚠ **WARNING**

Ignoring or disregarding the contents of this section and improper operation of the product may result in the person's death or serious injury.

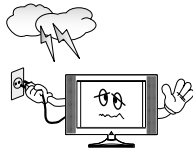In case of an accident, please unplug the unit from the outlet immediately.

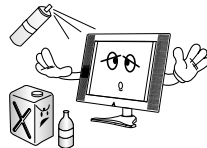|	
To reduce the risk of electric shock, do not remove cover or back. No user serviceable parts inside. Refer to qualified service personnel for repair.	Do not put any object that contains water - for example a vase, flower pot, etc.- near to the unit. The water may penetrate into the unit, and be a cause of fire or hazardous electric shock.
To prevent fire and damages to the product, unplug the unit from the outlet during a lightning storm, or when it is left unattended and unused for a long period of time	Do not put on or use the product near water and moisture-such as in a bathroom, washbowl, etc. It may cause fire and electric shock hazards
Slots and openings in the case are provided for ventilation to ensure reliable operation of the product. Never put in any items-such as coins, paper, matches- through these openings as they may touch dangerous voltage points that could result in fire or shock hazard.	Do not let children hang on to or climb on the product since it may cause serious injury.
Hold the plug when unplugging the unit from the outlet. The lead may cause fire or electric shock if damaged.	Do not cause the product to lean or put it in an unstable position because if it falls it may cause serious injury to a person, as well as damage to the product if it falls.
Do not put volatile substances such as benzene, naphtha- near the product since it may cause a change in the product's colour.	Do not spill water on to or drop the remote control since it may cause a malfunction.

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Warning

This section must be read carefully and followed by the user prior to the operation of the product.
The manual states important instructions for the user's own safety, and the proper operation of the product.

⚠️ **CAUTION**   **Ignoring or disregarding the contents of this section and improper operation of the product may result in the person's death or serious injury.**

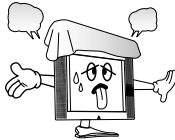Please keep the user's manual in a safe place for future reference.

Do not view the TV too closely since it may cause damage to your eyes.	Refer servicing to qualified service personnel for cleaning at least once a year since dust inside the TV set may result in a fire or malfunction of the product.
Do not cover the top of the television set. Ventilation will be prevented, and it may cause a fire if the product is internally overheated.	The product should be situated away from any heat source such as radiators, heat registers, stoves, or other products that produce heat.
Do not put heavy items on the power lead since it may result in a fire or hazardous electric shock if the lead is damaged.	Please be aware of electric wires and cables when installing the antenna. It may be a cause of hazardous electric shock and fire if the antenna touches or falls on the electric wire; thus, it must be installed firmly, and far away from the cables.
Do not touch the power lead with moisturised or wet hands when plugging to or unplugging from the outlet since it may cause an electric shock.	Do not expose the product to a dusty or moisturised place since it may cause malfunction.
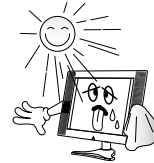
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Table of Contents

Supplied Accessories

Make sure that the following accessories are provided with the product.
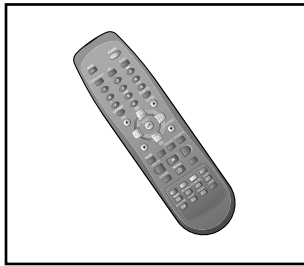
Remote control

Instruction manual

$\oplus$ AAA $\oplus$
$\oplus$ AAA $\oplus$
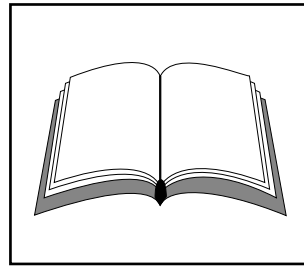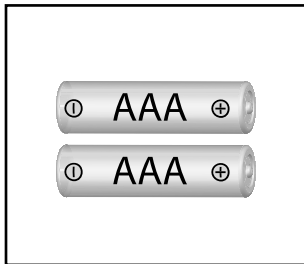
Batteries
2 x 1,5V AAA
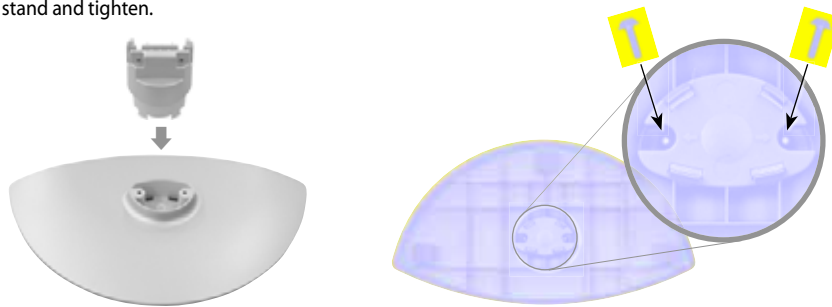
Cover Stand Base *

Frame Stand *

*) - Screws, Cover Stand Base and Frame Stand are only for DLT-19W4T and DLT-22W4T. For installing stand, see page 9.

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Install Stand

This page is only for DLT-19W4T and DLT-22W4T.

1. Insert Frame Stand into the Cover Stand Base and insert two screws (Ø3 x 12mm) in the hole at the bottom of the stand and tighten.

* Please insert two screws in the hole at the bottom of the stand.

2. Place the TV faced down on a soft cloth or cushion on a table and insert the assemble stand into the metal at the bottom of the TV.

3. Insert two screws (Ø4 x 14 mm) into the holes indicated and tighten.

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Parts of the Remote Control

1. 🔇 **MUTE** : Press this button, and the sound goes off. Press again, and the sound returns.

2. ⏻ **POWER** : TV on/off button in STANDBY mode.

3. **DVB/Analogue** : Each time you press this button, the TV will toggle between DVB & RF Analogue. Also you can come back to the current TV mode from any External mode.

4. **AV** : Each time you press this button, the TV will cycle through:
TV → AV1 → AV2 → Component → HDMI → PC → TV

5. **SLEEP** : Sleep Timer setting.
SLEEP TIMER : OFF → 15 → 30 → 45 → 60 → 75 → 90 → 105 →120 → OFF

6. **NUMBER** : Using the numbers buttons on this board, you can select programmes directly.

7. **S.EFFECT** : Using this button, you can listen to the virtual surround sound. The sound will cycle through:
Off → SPATIAL → 3D Panorama → Off

8. **MTS** ⊽/⟲/**I**/**II** : You can select sound modes in Mono, Stereo, Dual1, Dual2, NICAM STEREO. This works only in TV mode.

9. ▲**VOL**▼ : Adjusts the volume.

10. ▲**PR/PAGE**▼ : Changes the programme on your TV.

11. ▲/▼ : Moves the cursor up/down in the menu.

12. ◄/► : Accesses and adjusts items in the menu.

13. **OK/SELECT** : Auto Tuning Start and Manual Tuning Store.

14. **GUIDE** (digital mode only): Moves to EGP in DVB mode directly. See page 34.

15. **SUBTITLE** (digital mode only): Selects the Subtitle On/Off in the DVB MENU directly, or shows the subtitle if it has on in the DVB MENU. See page 31.
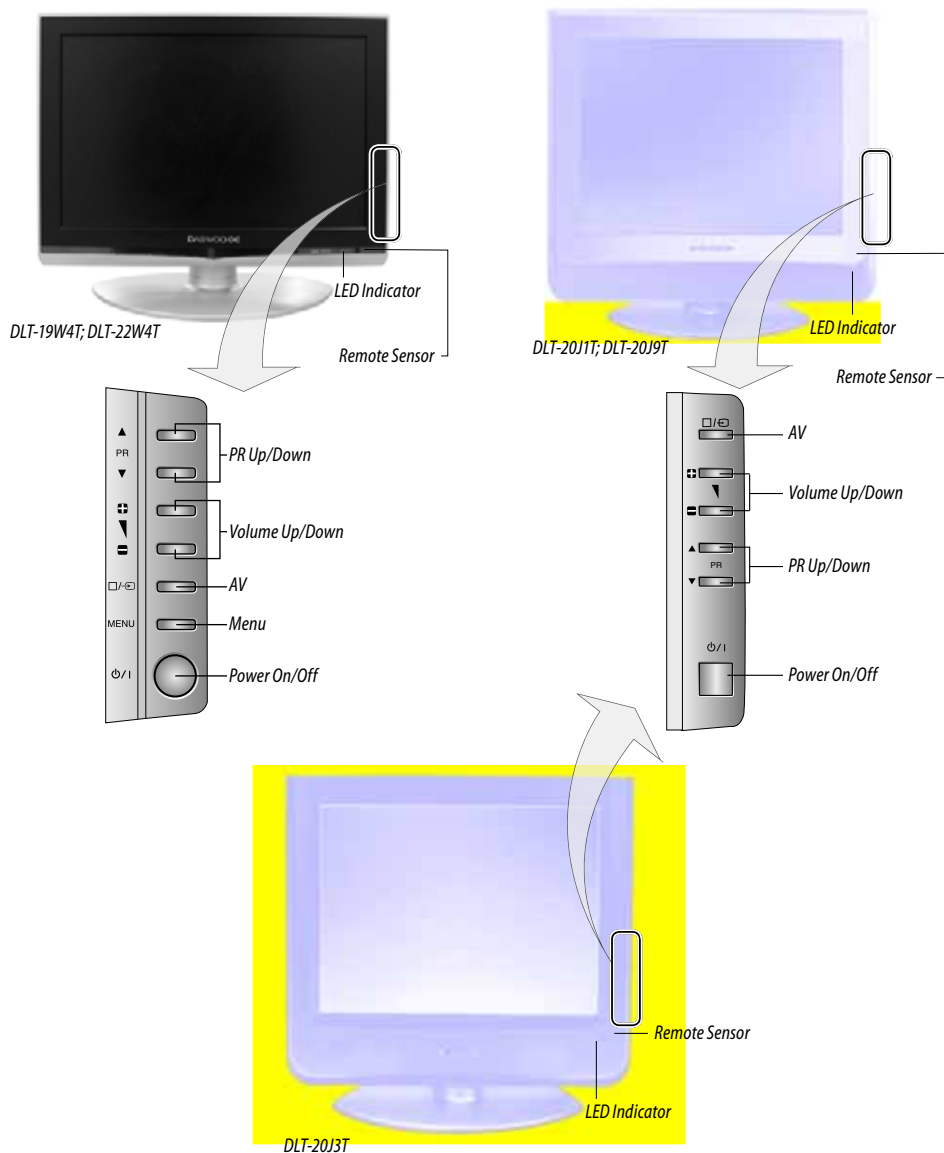
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16. **LANGUAGE** (digital mode only): Moves to multi audio language selection. See page 31.

17. **FAVOURITE** (digital mode only): Moves to Favourites channel. See page 29.

18. **PREV PR** : Previous PROGRAMME button in TV mode.

19. **MENU** : Menu display button.

20. **ASPECT** : Selects the screen aspect ratio. See page 37.

21. **NORMAL** : The NORMAL button changes picture mode as follows: Normal → Movie → Favourite → Dynamic → Normal

22. **RECALL** : You can recall the present modes (TV, Video, Component, HDMI, PC) and Signal information. In TV mode, the Programme number and Sound.

23. **CANCEL/EXIT** (digital mode only): Using this button to move to upper menu or exit the menu.

24. **Colour Keys (RED, GREEN, YELLOW, BLUE)** : Use on analogue text or DVB-T mode.

25. **TEXT (TEXT, REVEAL, T.CANCEL, SIZE, SUBCODE, HOLD, MIX, INDEX)**: see page 45.

26. **GAME** (option) : You can play the Sudoku game.

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Name of Each Part

Front
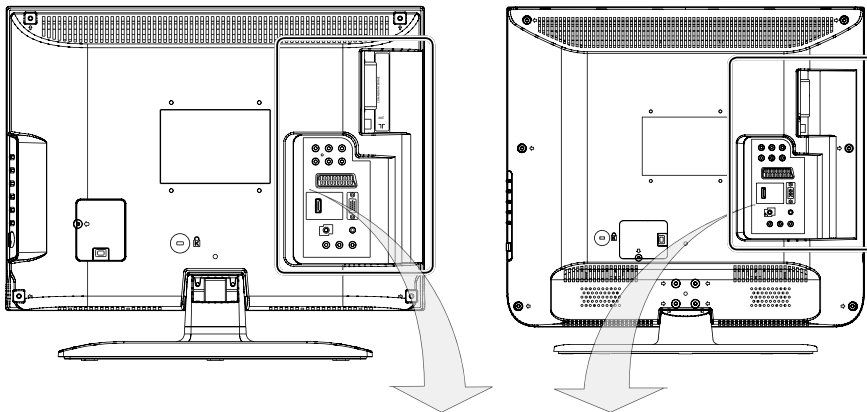
DLT-19W4T; DLT-22W4T

LED Indicator

Remote Sensor

PR Up/Down

Volume Up/Down

AV

Menu

Power On/Off

DLT-20J1T; DLT-20J9T

LED Indicator

Remote Sensor

AV

Volume Up/Down

PR Up/Down

Power On/Off

Remote Sensor

LED Indicator

DLT-20J3T

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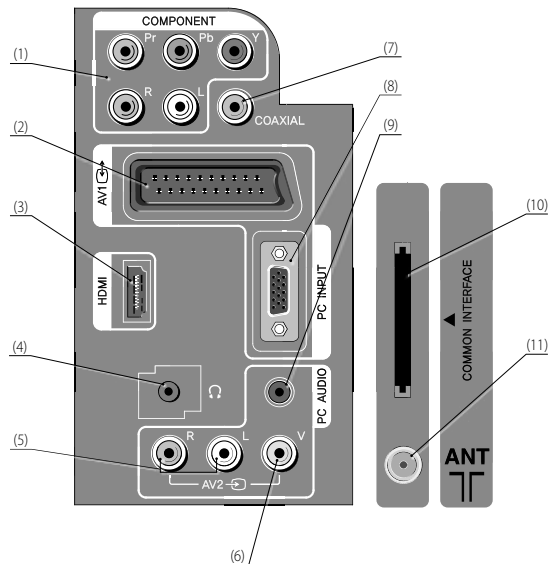# Rear

DLT-19W4T / DLT-22W4T   *DLT-20J1T / DLT-20J3T / DLT-20J9T*

(1) Component
(2) SCART sockets
(3) HDMI inputs
(4) Headphone jack
(5) Audio Input (L+R) Socket
(6) Video Input Socket
(7) Digital Audio out coaxial
(8) PC Input
(9) PC Audio
(10) CI socket
(11) Aerial jack

COMPONENT
Pr   Pb   Y
R   L
COAXIAL
AV1
HDMI
PC INPUT
PC AUDIO
R   L   V
AV2
COMMON INTERFACE
ANT

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Preparation

Inserting Batteries into the Remote Control Unit

To load the batteries, turn the remote control handset over and open the battery compartment.
Insert the batteries (Two 1.5V, type R03 or AAA).
Make sure that the polarity matches with the (+) and (-) marks inside of the battery compartment.

Note: To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.

batteries
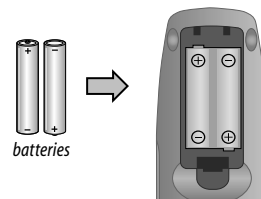
Mains Connection

1. Plug the end of AC cord into a Power outlet with 220V-240V~,50Hz.

Power outlet

AC Cord

14
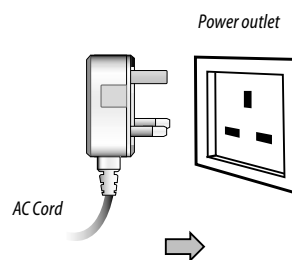
Aerial Connection

CONNECTING THE TV DIRECTLY TO AN AERIAL

Connect an aerial cable (75 ohm coaxial cable) to the Aerial terminal on the back of the TV set.
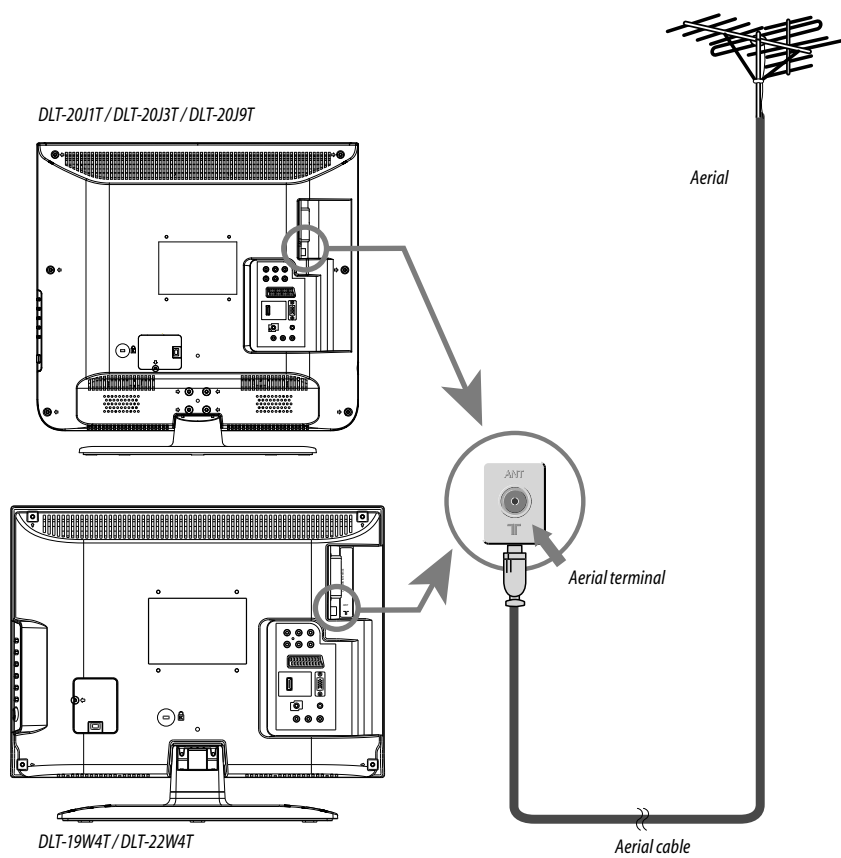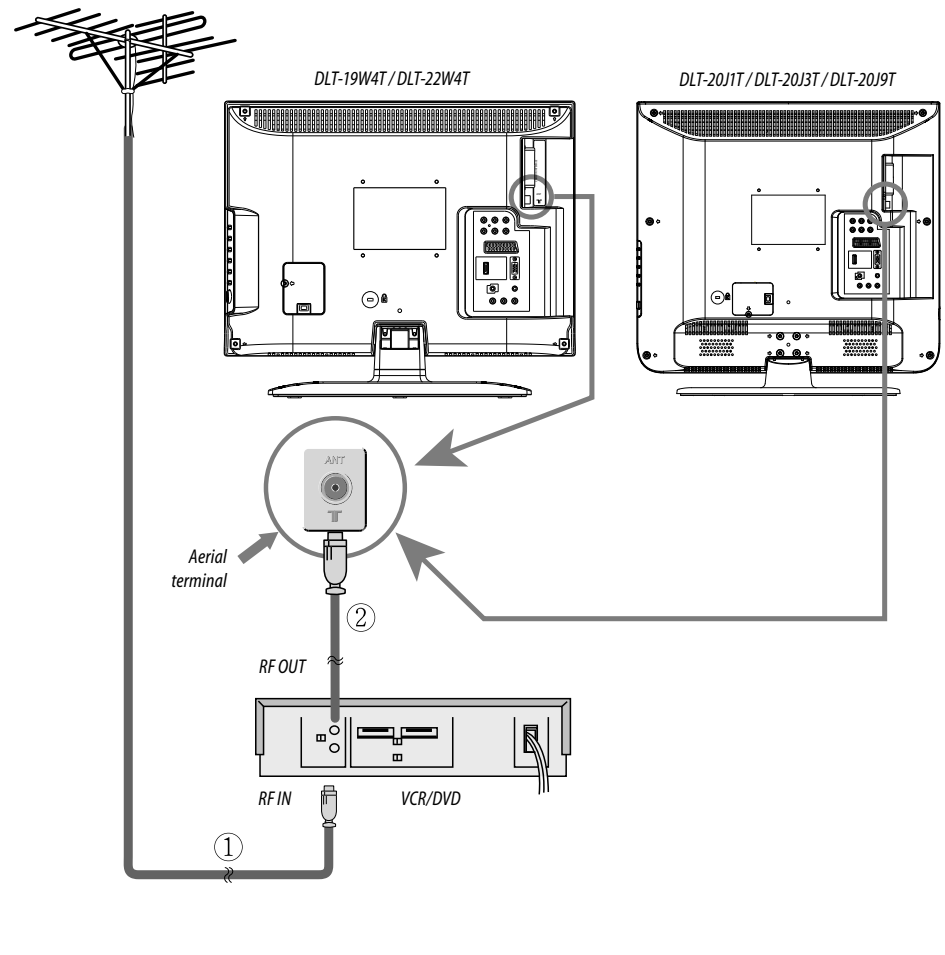
DLT-20J1T / DLT-20J3T / DLT-20J9T

Aerial

Aerial terminal

DLT-19W4T / DLT-22W4T

Aerial cable

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Aerial connection with VCR/DVD

Connect your   aerial cable to the RF (aerial) IN terminal on the VCR/DVD.
Connect the RF OUT terminal of the VCR/DVD to the Aerial terminal on the TV set with an   RF cable.

Note: If you wish to use only the Aerial (RF) connection, then you should store the VCR/DVD channel on programme number **"ZERO"** using the **"Manual tuning"** function (See page 25). If your VCR/DVD has this facility.
Now you can watch the VCR/DVD in TV mode by selecting the programme number "PR00".
Otherwise you will have to use a scart connection from your VCR/DVD to this TV into AV1 or AV2 and select the appropriate AV input on your TV to see VCR/DVD playback.

DLT-19W4T / DLT-22W4T

DLT-20J1T / DLT-20J3T / DLT-20J9T

Aerial terminal

②

RF OUT

RF IN

VCR/DVD

①

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External Equipment Connection

Component cable

COMPONENT
Pr Pb Y
R L
COAXIAL
AV1
HDMI
PC INPUT
PC AUDIO
R L V
AV2

Component cable

Scart cable

*Set Top Box
VCR/DVD/Camcorder/
Video Game*

HDMI cable

AV cable
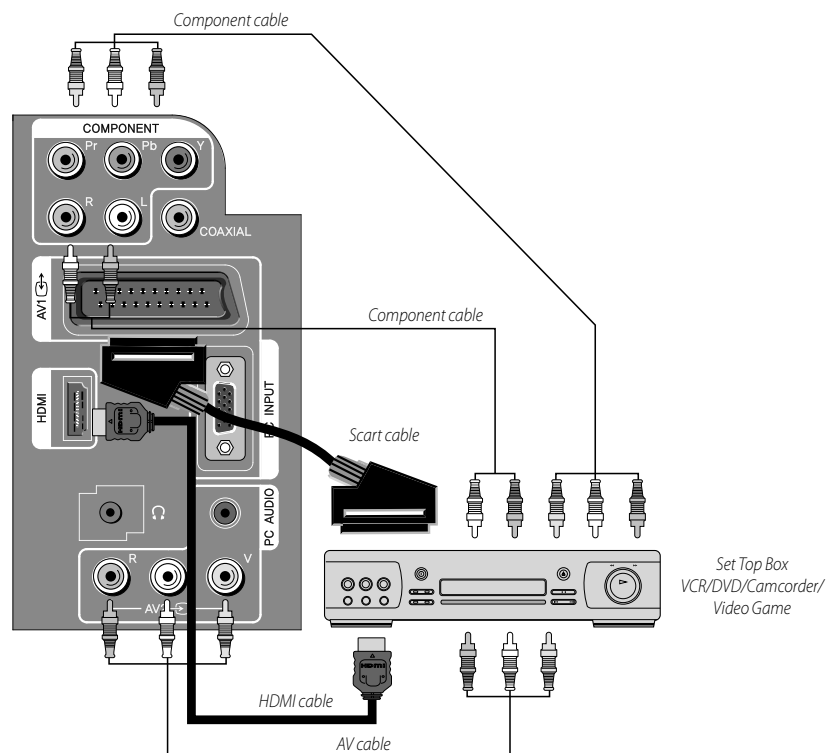
When you connect with a component video cable, please check the colour of the cable between the DVD and TV set.

Note:

1. The meaning of the component marking.
   - 'Y' is a symbol for 'Luminance'
   - Pb is a symbol for 'Picture Blue' or B-Y
   - Pr is a symbol for 'Picture Red' or R-Y
   * Luminance 'Y' is made from Red + Blue + Green and this leaves green for the 'Y' input.
2. HDMI connection.
   - The meaning of 'HDMI' is High Definition Multimedia Interface
   - If your A/V equipment has only DVI output, you should use DVI-to-HDMI cable to connect with this TV.

However this will only produce Video output. Therefore you must ensure separate Audio cables are connected to the PC AUDIO input.

3. Be sure that even if you connect CANAL+ decoder, the CANAL information message will not display on the screen.
4. When you connect external equipment, output will be as show in the below table.

| Connector	Mode	Output
AV1	TV(RF), AV1	TV Out
(SCART)	AV2	Monitor Out
	Component, HDMI, PC	Nothing

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PC Connection

When connecting with PC(D-Sub) cable.

1. First adjust resolution of the PC (refer to table in page 19). Using the PC's original monitor.
2. Then disconnect your monitor from your PC and connect between PC and TV set using the D-sub and Audio cable as shown in the picture below.
3. Turn on the PC and TV set.
4. Select PC mode by pressing the "**AV**" button on the remote control or "▭ /⊕" button of the TV set.

PC

Back of the tv set
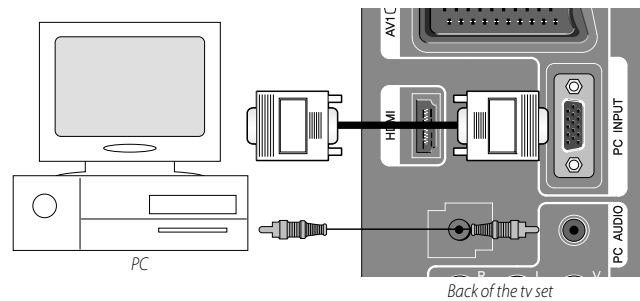
When connecting with a HDMI cable.

1. First adjust resolution of the PC (refer to table in page 19). Using the PC's original monitor.
2. Then disconnect your monitor from your PC and connect between PC and TV set using the HDMI and Audio cable as shown in the picture below, if necessary. See note below.
3. Turn on the PC and TV set.
4. Select HDMI mode by pressing the "**AV**" button on the remote control or "▭ /⊕" button of the TV set.

PC

Back of the tv set
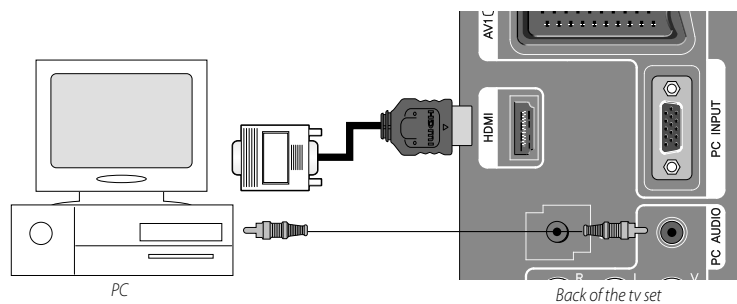
Note : If the graphic card of the PC only supports a DVI signal, you must connect the Audio cable as shown in the picture above.

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Multimedia Connection Notes

Common notes
- If you turn on the TV when the TV is cold, small „flickering" phenomenon can happen. But this is normal and is no malfunction of LCD TV.
- Please do not touch or press the LCD screen with your finger or an object like a pen for a long time. It may cause some temporary distortion effects on the screen.
- Red, Green or Blue spots may appear on the screen. But monitor performance is not effected.

PC Connection Notes

- If possible please use the best resolution as show in the table below.
  * DLT-19W4T, 22W4T : 1440 x 900 at 60Hz
  * DLT-20J1T,20J3T,20J9T : 640 x 480 at 60Hz
- If there is a "Vertical Frequency" setting menu in the [Display] Menu of the PC, adjust the frequency to 60Hz.
- If the PC resolution is too high, it may be hard to detect signals. Select a suitable resolution.
- HDMI input port receives only digital Signal.
- Depending on the graphic card when you plug & unplug the HDMI connection the screen may not display correctly. Restart the computer if this happens.
- Depending on graphic card, problems like no signal detected or line noises can occur. If these problems do occur contact the graphic card company for help.
- Due to window version, some message may appears on the screen. Then follow the message shown.
- If the message "No signal" appears on the screen, please adjust the PC output by referring to the "PC resolution table" below.
- When you connect with component, PC(D-Sub), and HDMI, you must check the input resolution of external devices.

PC input resolution table in LCD

Resolution	V-freq	DLT-19W4T, 22W4T		DLT-20J1T, 20J3T, 20J9T		Remark
		PC(D-Sub)	HDMI	PC(D-Sub)	HDMI	
640 x 480	60Hz	o	o	o	o	
800 x 600	60Hz	o	o	x	x	
1024x768	60Hz	o	o	x	x	
1280x768	60Hz	o	x	x	x	
1440 x 900	60Hz	o	x	x	x	

DVD / Set Top Box connection notes

Note :
• Please note that 720x480i and 720x576i resolution are not avaible by HDMI input in this LCD TV. These signal will cause problems like no picture, distorted picture or "No signal" message on the screen.
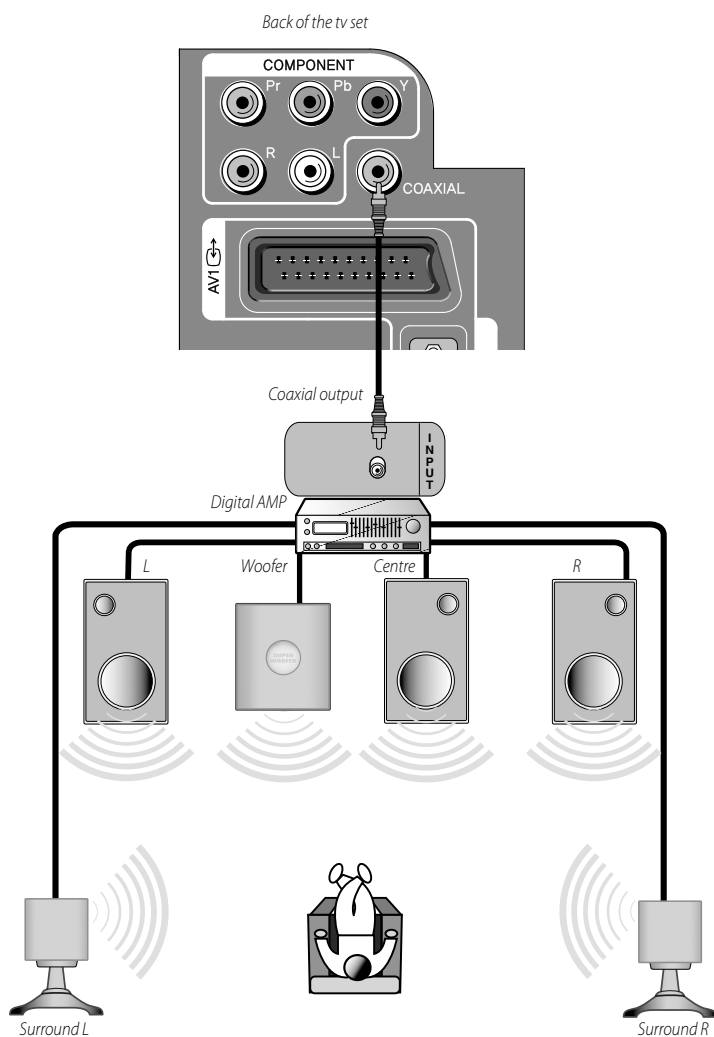
Multimedia input resolution table in LCD

Resolution	V-freq	DLT-19W4T, 22W4T		DLT-20J1T, 20J3T, 20J9T		Remark
		Component	HDMI	Component	HDMI	
720 x 480i	60Hz	o	x	o	x	
720 x 480p	60Hz	o	o	o	o	
720 x 576i	60Hz	o	x	o	x	
720 x 576p	60Hz	o	o	o	o	
1280 x 720p	50Hz	o	o	o	o	
	60Hz	o	o	o	o	
1920 x 1080i	50Hz	o	o	o	o	
	60Hz	o	o	o	o	

Digital Amp. Connection

If you connect the coaxial output to a digital AMP, you can listen to surround sound, and output will be to the below table.

Connector	Mode	Output
Coaxial output	TV(RF), AV1	TV Out
	AV2	Monitor Out
	Component, HDMI, PC	

Back of the tv set

COMPONENT

Pr   Pb   Y

R   L

COAXIAL

AV1

Coaxial output

INPUT

Digital AMP

L   *Woofer*   *Centre*   R

Surround L   *Surround R*
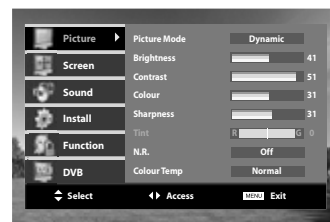
20

Basic Menu

- The basic menu appears on the screen if you press the "**MENU**" button of the remote control.
- There are 6 items Picture, Screen, Sound, Install, Function and DVB in the basic menu.
- Each item has sub-items under it. If the desired item is selected, the relevant sub-items are displayed upward.
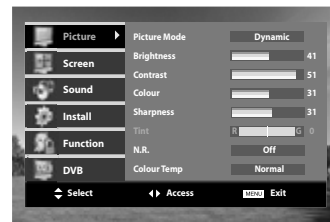
1. Press the "MENU" button.
  · The main menu appears if you press the "**MENU**" button.

2. Press the "▲/▼" button.
  · You may setup according to the directions on the screen after selecting the desired item by pressing the "▲/▼" button.
  · If the setup is completed, exit from the menu by pressing the "**MENU**" button.

P i c t u r e : Adjusts Picture Mode, Brightness, Contrast, Colour, Sharpness, Tint (NTSC only), N.R. (Picture Noise Reduction) and Colour Temperature.

S c r e e n : Adjusts Aspect and PC (activated on PC mode only).

Sound : Adjusts AVC (Automatic Volume Control), Effect, Balance and Equalizer.

I n s t a l l : Adjusts Auto Tuning, Manual Tuning, Setup and Edit.

F u n c t i o n : Adjusts Language and Child Lock.

D V B : Adjusts DVB Menu and Software Update (activated on DVB-T only).

21

To Watch TV

- If the AV1 terminal on the TV set is connected with an external device, which is switched on, the TV will come ON in AV1 mode. Otherwise, TV will come ON in the last mode used.

1. Turning on the TV.
  a) If the stand-by indicator is red, then the TV set is in stand-by mode. You can switch on using the remote control "**POWER**" button (press and hold 0,5 second), the **NUMBER 0…9** buttons, or **PR UP**/**DOWN** buttons. The local **PR UP**/**DOWN** buttons on the TV can also be used. Once on, the stand-by indicator turns to green and the picture appears on the screen.
  b) If the stand-by indicator is not lit, then the TV set is powered off. You must switch ON the TV set local MAIN POWER switch on the set. If a picture does not appear, then the stand-by indicator will be red. In this case, use the re-mote control as indicated in a).
  c) If the stand-by indicator is flashing red, and green then the TV set is in child lock mode. It is necessary to use the remote control **POWER** button, **NUMBER 0…9** buttons, or **PR UP**/**DOWN** buttons. The local **PR UP**/**DOWN** but-tons on the TV will not function. Once on, the stand-by indicator turns to green and the pic-ture appears on the screen.

2. Adjust program.
  · Select the desired program by pressing the "▲PR▼" button or the number button.

3. Adjust volume.
  · Sound reduces by pressing the "**VOL▼**" but-ton.
 · Sound increases by pressing the "▲**VOL**" but-ton.
Note : Sound mutes by pressing the "**MUTE**" (🔇) button.

4. Turning off the TV.
  · Pressing the remote control "**POWER**" button and hold 0,5 second, will switch off the TV to stand-by mode (low power consumption mode) which also allows quick restart by remote con-trol (see above: Turning on the TV).
  · Pressing the TV set local MAIN POWER button, you can power off the TV set. In this case, you

22
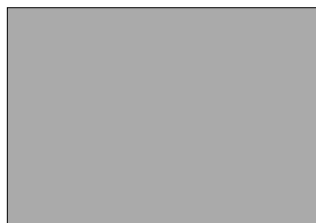
must use the same local "**POWER**" button to switch on again (see above: Turning on the TV).

5. Checking TV operation status.
- Pressing the "**RECALL**" (^{RECALL} ⓘ) button, the status of channel or broadcasting currently being watched or entry status of video component is displayed on the screen.

Remark:
- If a broadcast signal is not present after 10 minutes, the TV set will automatically turn to stand-by mode.
- The On/Off switch (⏻ / |) on this model does not fully disconnect the TV from the mains supply. Remove the mains plug from the wall socket when the TV set is not used for a prolonged period of time.
- When you turn on the MAIN POWER SW the set will be in stand-by or TV on condition. It depends on the last position memory of the power. That means, if you turn off the MAIN POWER SW in stand-by condition, the set will come on in stand-by mode (⏻). If you turn off the MAIN POWER SW in TV on condition, set will come on in TV mode (|).
- When you turn off the set, the screen will be dark (monitor out) and stand-by indicator will be red.
  However to check for OAD (Over-Air-Downloads), the set will automatically operate internally for 10 minutes.
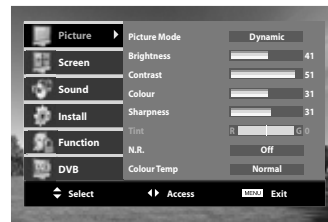
23

Setting Up TV Stations

Auto Tuning

- All stations that can be received are stored by this method. It is recommended that you use Auto tuning during installation of this set.
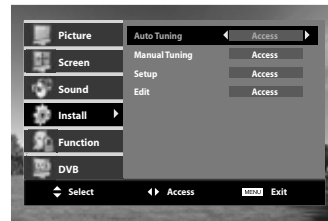
1. Press the "MENU" button to select the Install menu.
 • Move the selection bar to the **Install** menu with "▲/▼" buttons.

Picture ▶	Picture Mode	Dynamic
Screen	Brightness	41
Sound	Contrast	51
Install	Colour	31
Function	Sharpness	31
DVB	Tint	R ___ G 0
	N.R.	Off
	Colour Temp	Normal
⬍ Select	◀▶ Access	MENU Exit

2. Select the "Auto Tuning".
  • Place the selection bar on **Auto Tuning** and press the "▶" button.

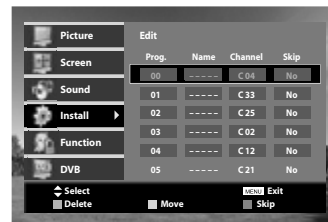| Picture	Auto Tuning ◀	Access ▶
Screen	Manual Tuning	Access
Sound	Setup	Access
Install ▶	Edit	Access
Function		
DVB		
⬍ Select	◀▶ Access	MENU Exit

3. Select the country you require with the "◀/▶" button.
  • After selecting the country, to start Auto Tuning press the "**OK**" button.

Auto Tuning

Country Set   GB ▶

Pr00   Euro

OK Start   ◀▶ Country Set   MENU Exit
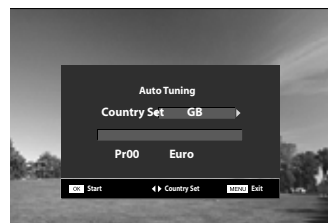
4. Please wait until the Edit menu appears.
  • If you don't want to edit the programs now, escape from the menu with the "**MENU**" button.

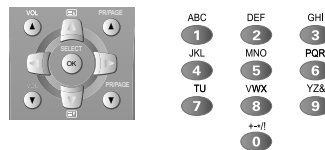|	Edit			
Picture	Prog.	Name	Channel	Skip
Screen	00	-----	C 04	No
Sound	01	-----	C 33	No
Install ▶	02	-----	C 25	No
Function	03	-----	C 02	No
DVB	04	-----	C 12	No
	05	-----	C 21	No
⬍ Select			MENU Exit	
■ Delete	■ Move		Skip	

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Setting Up TV Stations

Manual tuning

**1. Press the Number buttons (0...9) or the "▲PR▼" button to select a program number you want.**

2. Locate the selection bar on the Manual tuning at the Install menu.
- Press the "**MENU**" button to select the **Install** menu.
- Move the selection bar to the Install menu with "▲/▼" buttons.
- Place the selection bar on **Manual Tuning** and press the "▶" button.
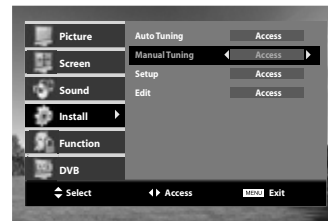
3. Execute Manual Tuning.
- A tuning screen will appear and cursor will move from left to right / from right to left. If you want to stop tuning press the "**MENU**" button.
- You should press the "**OK**" button to store a program then the PR number is changed to red. If you don't want to store the program, press "◀/▶" button to skip the program.
- To store another program, select other PR number using "▲/▼" buttons and press "◀/▶" buttons.
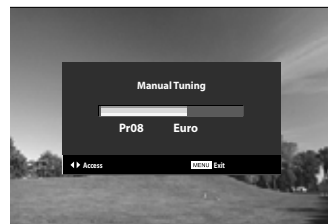
Note :
- If you are unable to get any programs using Auto Tuning due to a poor broadcasting signal, it may still be possible to store channels using the Manual tuning.
- If present channel is SECAM L/L', TV set search SECAM L/L'. And, if present channel is not SECAM L/L', TV set search all channels except SECAM L/L'.

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Setting Up TV Stations

Setup

The Setup menu shows you information as follows:
- Channel, System, Frequency, Station name, Program number and Store to PR number.

1. Searching for channels in the Setup menu.
- Press the "▲PR▼" buttons to select a program number you want.
- Move to **Setup** in the **Install** menu.
- Search using real channel information (Channel eg.eg. channel 38, System eg. PAL/SECAM and Program eg. 2) with "▲/▼" buttons.
- ◀◀ ▶▶ Search: Press and hold for more than 1second the remote control "◀/▶" buttons to start up/down manual tuning.
- Searching will stop automatically at the next channel found (to stop tuning, press the remote control **MENU** button).
- Also you can directly locate a program by entering the data into the "Channel" or the "Frequency" function.
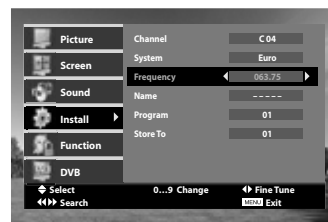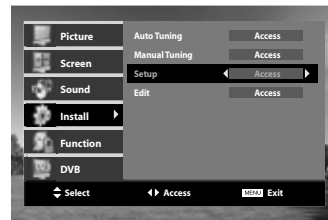
2. Fine tuning.
- Move to **Setup** in the **Install** menu.
- Move the cursor to **Frequency** by pressing "▲/▼" buttons.
- Adjust the fine tuning with the "◀/▶" buttons.
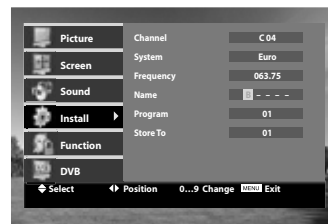
Note :
- If you are unable to get a good picture or sound because of a poor broadcasting signal, adjustment of the fine tuning might improve it.

3. Enter a station name.
- Move to **Setup** in the **Install** menu.
- Move the cursor to **Name** by pressing "◀/▶" buttons.
- You can enter a station name with the "▲/▼" buttons. Also you can by pressing the appropriate key until the character you want appears on the screen. For example, when you press number 1 key (¹ᴬᴮᶜ) on the remote control repeatedly, the character shown on the screen will change as, 1 → A → B → C → 1.

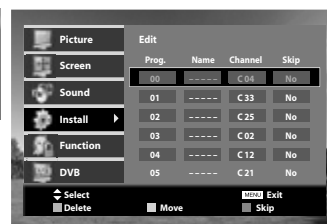**Note :** Only English is supported for naming the station.

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Edit

The Edit menu shows you information as follows:
- Program position assignment: Program number and Station name, Real channel number.
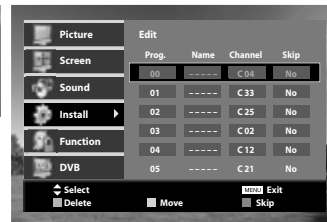- Skip information: Yes or No.

1. Deleting the program positions.
- Move to **Edit** in the **Install** menu.
- Move the selection bar to the program number to de-lete with the "▲/▼" buttons.
- Press the "**Delete**" (**RED**) button.

Picture	Edit			
Screen	Prog.	Name	Channel	Skip
Sound	00	-----	C 04	No
Install ▶	01	-----	C 33	No
Function	02	-----	C 25	No
DVB	03	-----	C 02	No
	04	-----	C 12	No
	05	-----	C 21	No

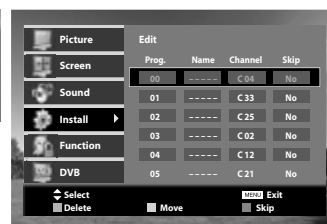Select — MENU Exit
Delete — Move — Skip

2. Moving the program positions.
- Move to **Edit** in the **Install** menu.
- Press the "**Move**" (**GREEN**) button. The program and station name is highlighted in green.
- Move the green block to the desired position using the "▲/▼" buttons.
- Press the "**Move**" (**GREEN**) button again, then the pro-gram is changed.

Picture	Edit			
Screen	Prog.	Name	Channel	Skip
Sound	00	-----	C 04	No
Install ▶	01	-----	C 33	No
Function	02	-----	C 25	No
DVB	03	-----	C 02	No
	04	-----	C 12	No
	05	-----	C 21	No

Select — MENU Exit
Delete — Move — Skip

3. Skipping the Programs.
- Move to **Edit** in the **Install** menu.
- Move the selection bar to the program number you want to skip
- Press the "**Skip**" (**YELLOW**) button, then the skip area will cycle through : Yes and No.

| Picture	Edit			
Screen	Prog.	Name	Channel	Skip
Sound	00	-----	C 04	No
Install ▶	01	-----	C 33	No
Function	02	-----	C 25	No
DVB	03	-----	C 02	No
	04	-----	C 12	No
	05	-----	C 21	No

Select — MENU Exit
Delete — Move — Skip

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DVB Menu

The very first time that you switch to DVB mode, the Country selection menu will appear on the screen. Its purpose is to enable you to select the country that will be used for all the OSD (On Screen Display) menus. The user must enter a choice of country before proceeding further. For Spain, also select the region where you locate ("Peninsula" or "Canarian Islands"). If you want to change country later, select "Factory settings" item in "System Parameters" menu (see page 32).

DVB Menu

- Press the "**MENU**" button to display the main menu. Then, select **DVB** menu. You may see the DVB during any DVB menu directory, press MENU OSD. Whenever you need more information press "**INFO**" button (ⓘ), then you will see more detailed information on the screen. And in some menus, you can use the cyan, yellow, red and green buttons. Those buttons function depend on which menu it is.
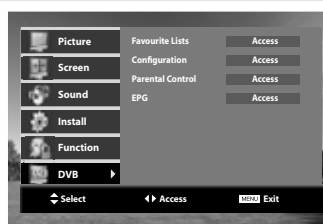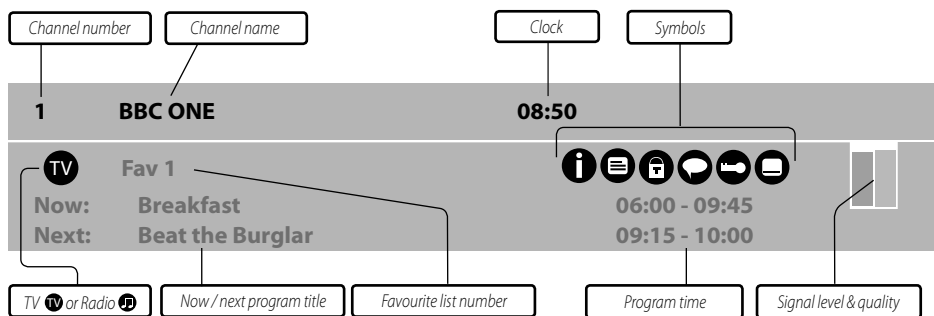
- **Favourite List** : Lock some channels that are not suited for younger members of the family, skip/add the channel list as you wish.
- **Configuration** : Add new channel, set audio language, subtitle language, as you wish. Upgrade the software. View the signal information.
- **Parental Control** : Enable or Disable the menu protection system and allows the PIN code to be changed.
- **EPG** : Electronic Program Guide.

Note :
• This menu is activated only in digital mode.
• Once you access the DVB menu, the OSD shown screen is different to the Analogue's one and OSD may seems to be grainy.
• When you switch from Analogue to Digital, "No signal" may display on the screen for a while.

About the information on the banner

- When you select a digital program, an information banner is displayed for a few seconds at the bottom of the screen.

| Channel number | Channel name | | Clock | Symbols |

1   BBC ONE   08:50

TV   Fav 1   ⓘ 🗐 🔒 💬 ➡ 🗐

Now: Breakfast   06:00 - 09:45
Next: Beat the Burglar   09:15 - 10:00

| TV or Radio | Now / next program title | Favourite list number | Program time | Signal level & quality |

Symbols description
ⓘ detail information   🔒 locked channel set in favourite list
🗐 teletext   🗐 multi audio language
➡ scramble channel   🗐 subtitle

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DVB Menu

Favourite List

You can select the desired item by using the "▲/▼" buttons and press the "**OK**" button to enter selected one.

CREATE
Select **Create** item and press "**OK**" button to enter.
The menu will be displayed on the screen.
Once you enter the **Create a Favourite list** menu, a new channel list will be created, you can create a maximum of 4 favourites list.

You can lock or unlock the selected channel by pressing the "**RED**" button. A locked channel means that the selected channel cannot be viewed without entering in the child lock code. Pressing the "**BLUE**" button to skip or add the selected channel. If you want to skip or add all, first press the "**GREEN**" button, then press either the "**RED**" button to skip all, or the "**GREEN**" button to add all. A channel selected as a locked appears in the channel list with a lock icon (red button) against the channel name, a channel selected as an added channel appears in the channel list with a add icon (tick) against the channel name.

By pressing the "**YELLOW**" button you can sort the channels in the list. Then you can sort the channels alphabetically by pressing the "**RED**" button or sort the channels manually by pressing the "**BLUE**" button If you have locked several channels, by pressing the "**YELLOW**" button, the locked channels will be placed at the bottom of the Channel list in alphabetical sort.

When you have completed your editing, press the "**MENU**" button to save the favourite channel list menu. The next menu will ask if you want to save the changes you have made, using the "◀/▶".
If you want to quit the favourite channel list, press the "**CANCEL/EXIT**" button to quit.

Once you lock a channel, you must enter the PIN Code that is set in the parental control menu at first before the channel is displayed.

If you skip a channel, it cannot be shown in the list menu (pressing the "**OK**" button will pop-up the favourite channel list menu when you watch the digital terrestrial television) unless you add it again (in the channel list menu, the skipped channel name is not shown).

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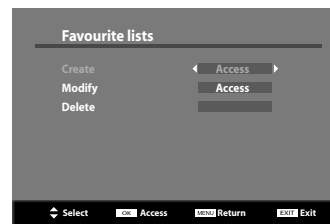
DVB Menu

MODIFY

You can modify the favourite list that you have created.
The list named "TV" and "RADIO" are the default list and all the favourite lists are made from those.
Select a favourite list and press the "**OK**" button to modify the list as you do in the create a favourite list menu.

Favourite lists

Create   Access
Modify   ◄ Access ►
Delete

◆ Select   OK Access   MENU Return   EXIT Exit

DELETE

Select the list name that you want to delete using the "▲/▼" buttons, and press the "**OK**" button to delete the selected favourite list. The pop-up menu will ask if you confirm or cancel the delete operation.

Note : The default favourite channel list names (RADIO and TV) are not displayed in the list, so you can only delete the list name you created.

Modify a favourite list

Radio
TV
FAV1
FAV2
FAV3

◆ Select   OK Access   MENU Return   EXIT Exit

Configuration

You can select desired item by using the "▲/▼" buttons and press the "**OK**" button to enter selected one.

Configuration

Installation   ◄ Access ►
User Settings   Access
System Parameters   Access
Time Settings   Access
Signal Information   Access
Conditional Access   Access

◆ Select   OK Access   MENU Return   EXIT Exit

INSTALLATION

Use these options If you have moved location or want to rescan for new channels. Press "**OK**" button to display the Installation menu.

Installation

Auto   ◄ Access ►
Manual   Access
New Channels   Access

◆ Select   OK Access   MENU Return   EXIT Exit

- **Auto** is the function to scan each channel automatically.
  Press the "**OK**" button and choose the installation type by using the "◄/►" buttons. and press the "**OK**" button to start the installation process.
  If you choose "Add", the new channels will be added in the channel list. If you choose "New", the new channels will replace the previous channels in the channel list.
  If you cancel automatic search before it is completed, the previous list of services is used, if already stored.

- **Manual** is the function to scan for an individual channel.
  Choose scan type (update or new) and select channel number to be scanned.

Installation

Installation type   ◄ Add ►

◆ Select   OK Access   MENU Return   EXIT Exit

30
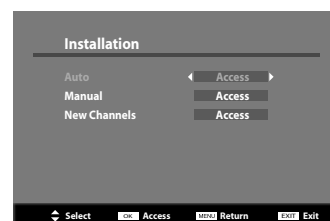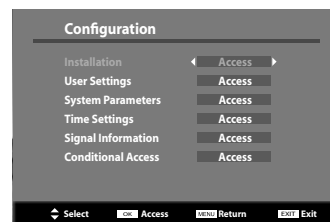
- **New Channels** shows the channels that you recently added in the channel list. The type icon of the program is displayed against the channel name.

Note :
• The DVB system requires a good signal to provide the best picture. For the DVB system, interference can disrupt the flow of data causing the picture to appear to be made up of large blocks or to freeze intermittently. Also if there are no channels in the list after installation, do install process again.
• If the picture disappears completely, this could mean that signal quality is very poor. If this happens, you may need to improve your aerial system to provide a better signal.
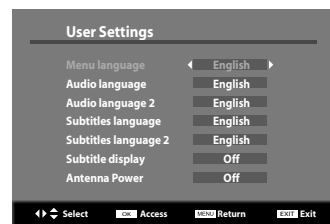
New Channels

TV	13	ITV1
TV	14	ITV3

⬍ Select   OK Access   MENU Return   EXIT Exit

USER SETTINGS

- Menu Language
You can select DVB menu language among the followings: English, French, German, Italian, Spanish, Danish, Netherland, Greek, Portugal, Turkey.

Notes :
• When you change the DVB menu language, Analogue menu language will be changed simultaneously.
• If the language you selected in this menu is not available among the Analogue OSD languages, then the Analogue OSD will be replaced by English automatically. For example, if you select Turkey for the DVB menu then the Analogue menu will be set to English (also refer "Available Language Table" on page 41).

User Settings

Menu language	◄ English ►
Audio language	English
Audio language 2	English
Subtitles language	English
Subtitles language 2	English
Subtitle display	Off
Antenna Power	Off

◄►⬍ Select   OK Access   MENU Return   EXIT Exit

- Audio language / Audio language 2
This function select which language soundtrack you will hear when switching to a channel broadcasting with multiple soundtracks. Move cursor to the **Audio language** item and select the desired language by "◄/►" buttons.
Also you can set **Audio language 2** in the same way as Audio language selection.

- Subtitle language / Subtitle language 2
You can selects the subtitle language in this menu. Move cursor to the **Subtitle language** and select desired language. Also you can set **Subtitle language 2** in the same way as Subtitle language selection.

- Subtitle display
You can toggle between subtitle **On** and **Off**.
also you can control this with the "**SUBTITLE**" button on the remote control.

- Antenna power (option)
If **On** mode is selected, you can use an external antenna that does not have a 5V adapter power.
Be sure that if you don't use external antenna this menu should be in **Off** mode to avoid problem like short circuit.

DVB Menu

SYSTEM PARAMETERS
Using the "▲/▼" buttons to select the system parameters item and press "**OK**" button to enter each item.

```
System Parameters

System Information      ◄ Access ►
Factory Settings          Access
Software Upgrade          Access


⬍ Select   OK Access   MENU Return   EXIT Exit
```

- System Information
You can see the system information but you cannot modify anything in this menu. Press the "**OK**" or "**MENU**" button to return to **System Parameters** menu.

```
System Information

Device            iDTV5105 Plug-in Mbeg
Software version  Pan-Euro v6.4.27
Hardware Model    ST5105
Hardware Release  ST5105
Hardware Version  V2.1

OK Access   MENU Return   EXIT Exit
```

- Factory settings
If you want to restore all data to initial factory condition, select this option. When you enter this menu a warning message will ask proceed or not. Please note that if you proceed this, all private settings and other user data will be erased.

```
Re-installation confirmation

All private settings and other user data
will be erased.
Do you want to proceed?


◄ Yes ►

◄► Select   OK Access   MENU Return   EXIT Exit
```

- Software Upgrade
Select the **Software Upgrade** item and press the "**OK**" button to enter the Software Upgrade menu.
And then press the "**OK**" button to upgrade software. If there is new software, the unit will upgrade itself.
Using the "▲/▼" buttons to highlight the system parameters item in the configuration menu, then press "**OK**" button to display the system parameters menu.
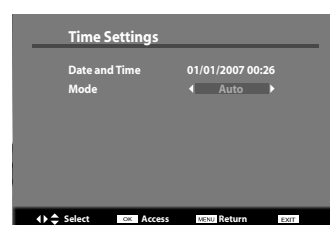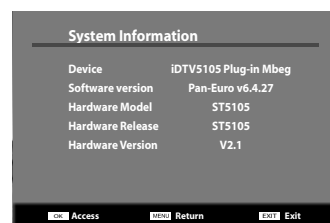
TIME SETTINGS (option)
 In this menu you can set time two ways - **Auto** or **Manual**.
 If you select Auto, time will be automatically set by broadcasting signal. In this option time can be different than real time if you receive broadcasts from a different time zone.
 If you select Manual, you can set time by yourself.

```
Time Settings

Date and Time    01/01/2007 00:26
Mode            ◄ Auto ►


◄►⬍ Select   OK Access   MENU Return   EXIT
```

SIGNAL INFORMATION
Select **Signal Information** item and press the "**OK**" button. Cycle through the channel option by using the "◄/►" buttons on the remote control. The signal level and signal quality of the channel that offers the upgrade software can be observed on the two bar graphs. The bar graphs of signal quality and signal level give a good indication of whether the selected channel is likely to be found. If the signal quality bar is high then a digital frequency and digital channels will probably be found.

```
Signal Information

Channel     ◄ 05 ►
Frequency   178.750

Level       ▮▮▮▮▮
Quality     ▮▮▮▮▮

◄► Select   OK Access   MENU Return   EXIT Exit
```

32
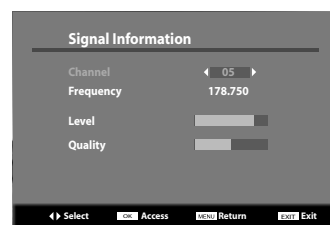
DVB Menu

CONDITIONAL ACCESS

- This allows you to upgrade your TV set with additional features including access to extra channels (if available) using a conditional access module (eg. TopUp TV).
- If there is no CI Card in the slot, "No CI or CA device present" appears on the screen.
- The **Common Interface** menu allows you to access a pay-per-view(PPV) service on your TV set. This feature operates once you have obtained a CI module and a viewing card. If you want to know the PPV service in your region, please contact your nearest PPV provider for detail.
- The sub menu shown to the right depends on module and may by different than yours.

Note : A Common Interface is available to connect a CAM (conditional access module) and a smartcard. Please contact your service provider to get more information about these modules.
The necessary phone number can be found on the digital channels initial page that provide this service.

```
Multi CI-CA List
Top Up TV




       Select      OK  Access    MENU Return    EXIT Exit
```

Parental Control

You can prevent unauthorized users such, as children, from watching unsuitable programmes by a digit PIN code that is defined by the user (PIN: Personal Identification Number).

PARENTAL CONTROL
You can select between **Enabled** and **Disabled** by using "◄/►" buttons. If you select enabled then the following items can be altered.

Channel lock
If you toggle this option to **Yes**, the channels you locked in the edit channel list menu can't be displayed before you enter the PIN Code.

Maturity level
There are 18 levels in total. If you toggle this option to a number (1-18), for example, you amy select 12, that's to say, if the channels broadcast material is not suitable for the family members who are under 12 years old, you must enter the PIN Code before you can view them. (The maturity level information should be broadcast with these programs.)

PIN Code change
Press the "**RED**" button and enter the previous code by using the 0-9 buttons on the remote control.
Then enter the new code twice to confirm. Press the "**OK**" button to quit the parental control menu and save these alteration. If you don't want to change to a new PIN Code press the "**CANCEL/EXIT**" button to quit the parental control menu.

Note :
• The default PIN Code for parental setting is "**0000**".
• If you have forgotten your personal password, you can reset to the default password "0000" by pressing the key sequence: **RED - RED - GREEN - GREEN - YELLOW - YELLOW - BLUE - BLUE**

```
Parental control

Parental control      ◄ Disabled ►
Channel lock              No
Maturity level            None


       ▭ PIN code change
◄►  Select      OK  Access    MENU Return    EXIT Exit
```

DVB Menu

EPG (Electronic Programme Guide)

You can check program schedules by pressing the "**GUIDE**" button on the remote control.

When you enter **EPG** the current program is highlighted and you can navigate channels by pressing the channel up/down "▲/▼" buttons to change channels and view the other programmes on the selected channel. Press the "▲/▼" navigation buttons to scroll through and show programme content.

There is a 7day EPG, you can see the other days channel list by using left / right navigation arrow "◄/►" buttons.

The short description of the highlighted channel is shown under the image window, and you can see the extended description by pressing the "**INFO**" button (⊙ RECALL) and you can close this window by pressing this button again.

TV Guide	1	Five

Tuesday 09/10

06:00	Breakfast
09:15	Real Rescues
10:00	Homes Live
11:00	To Buy or Not to Buy
11:30	Car Booty
12:15	Bargain Hunt
13:00	BBC News
13:30	BBC London News

Start your day with all the latest news, sport, business and weather from the BBC's Breakfast team. Includes regional news at 25 and 55 minutes past each hour.

◄► Other days ▲▼ Select ⓘ Details MENU Return EXIT Exit

Adjustment of Screen Size in TV and AV mode

- Pressing the "**AV**" button on the remote control the screen changes as follows:

   TV → AV1 → AV2 → Component → HDMI → PC → TV

- When you select HDMI or PC mode, check the following.
1. For optimum picture quality, use to the computer or set top box outputs as shown below.
   Using other formats or refresh rates may result in reduced picture quality.
   * DLT-19W4/22W4 : 1440 x 900 at 60Hz refresh rate
   * DLT-20J1/20J3/20J9 : 640 x 480 at 60Hz refresh rate

2. If the message "No signal" appears on the screen, adjust the PC output to a format listed in the PC input resolution table on page 19.

Note :
• The menu disappears if you do not operate any button for about 60 seconds from the menu appearing.
• In the case of connecting both composite video signal and S-video signal at the AV3 terminal, the S-video signal has priority.
• If sound signal is mono only, connect the white phono plug to the LEFT (L)-terminal of the sound input terminal on the TV.
• See page 17 for connection method of Camcorder and Video.

Setting various screen modes

- User can select various screens designed for a good picture   without adjusting The brightness, contrast or colour individually by pressing the "**NORMAL**" button on the remote controller.

   • The screen changes as follows:
    Normal → Movie → Dynamic → Favourite → Normal

   • The screen adjustment status changes as the following screens are displayed sequentially whenever pressing the "**NORMAL**" button.

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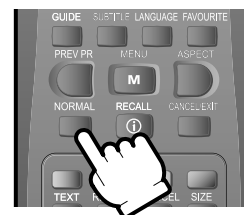
Screen Adjustment

When adjusting the screen to taste

- You can enjoy various screens by adjusting Brightness, Contrast, Colour, Sharpness, etc. to the user's taste.

1. Select "Picture" by pressing the "MENU" button.
   ・The menu screen appears as follows.
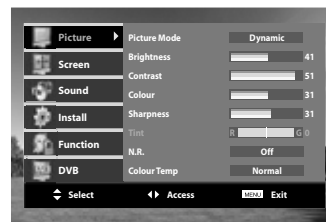
2. Select and adjust each item.
   ・Move to the **Picture** menu.
   ・Whenever pressing the "▲/▼" button, you can select Picture Mode, Brightness, Contrast, Colour, Sharpness, N.R and Colour Temperature EG. Warm (reddish picture) Cool (bluish picture).
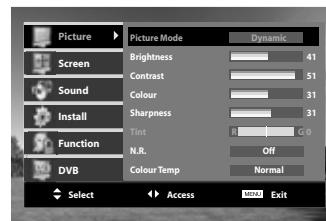
   ・The screen appears, as on the right, if pressing the "◀/▶" buttons after selecting items desired to adjust with the "▲/▼" buttons.
   ・You can adjust all items by pressing the "◀/▶" button.

Note :
・ **Picture Mode** : Changing the picture mode, Normal → Movie → Dynamic → Favourite
・ **Brightness**: Adjusts the whole of screen brighter or darker.
・ **Contrast**: Adjusts difference between brightness and darkness between objects and background on the screen.
・ **Colour**: Adjusts colour saturation.
・ **Sharpness**: Adjusts outline of the screen smoothly or sharply.
・ **N.R** : Noise reduction.
・ **Colour Temperature**: Changing the tone of colour:
   Normal: Normal white **Warm :** Reddish white **Cool:** Bluish white
・ **Tint** only activates when receiving a NTSC signal.
・ The adjusted levels are stored automatically in Favourite mode.

Screen Adjustment

Adjustment of Screen Size in TV and AV mode

Default ZOOM format will be selected. Otherwise, the preferred mode of the user can be forced by repeated pressing of the remote control "**ASPECT**" button:

The following picture formats is available:

	DLT-19W4T, 22W4T	**DLT-20J1T, 20J3T, 20J9T**
RF, AV1, AV2 MODE		WIDE, FULL SCREEN
COMPONENT, HDMI, PC	4:3, FULL SCREEN	FULL SCREEN
DVB-T MODE		WIDE, FULL SCREEN

Adjustment of the screen in the PC mode

1. Auto Adjustment.
- Move to **Auto** in the **Screen** menu.
- Press the "◄/►" buttons to detect optimal resolution automatically.
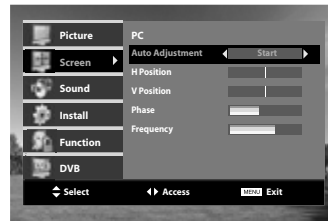
2. Adjustment of the H-Position.
- Move to **H-Position** in the **Screen** menu.
- Press the "◄/►" buttons to adjust the horizontal position of displayed image until correct.
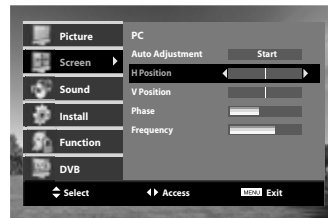
3. Adjustment of the V-Position.
- Move to **V-Position** in the **Screen** menu.
- Press the "◄/►" buttons to adjust the vertical position of displayed image until correct.

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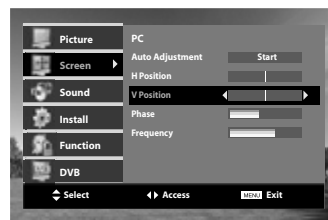
Screen Adjustment

4. Adjustment of the Phase.
  · Move to **Phase** in the **Screen** menu.
  · Press the "◄/►" buttons to adjust the phase to get a clear picture.

Picture	PC	
Screen ►	Auto Adjustment	Start
	H Position	
Sound	V Position	
Install	Phase	◄____►
Function	Frequency	
DVB		

Select   Access   MENU Exit
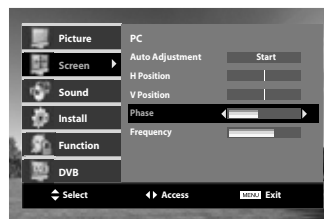
5. Adjustment of the Frequency.
  · Move to **Frequency** in the **Screen** menu.
  · Press the "◄/►" buttons to adjust the frequency to fit the size of the screen.

Picture	PC	
Screen ►	Auto Adjustment	Start
	H Position	
Sound	V Position	
Install	Phase	
Function	Frequency	◄____►
DVB		

Select   Access   MENU Exit
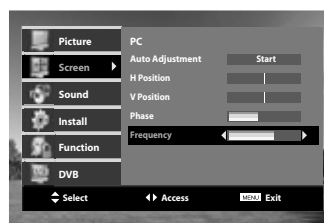
Note :
· During the Auto Adjust, you must not alter the screen on the monitor.
· During the moving picture, Auto Adjust is unable to work correctly. So you must execute Auto Adjust on a still image.
· Auto Adjust works incorrectly on a part graphic card or picture.
· When Auto Adjust is not correctly working, you can adjust with H/V position, and phase manually.

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Sound Adjustment

When adjusting sound to taste

- The user can enjoy various sounds by adjusting AVC, Effect, Balance and Equalizer.

1. Select AVC Mode.
   • Select **AVC** (Auto Volume Correction) On/Off by pressing "◄/►" button.
   • Each sound source has its own signal conditions and it's not so easy to adjust the volume level every time. However if you select AVC On, when the modulation signal is high (as in the adverts) then the sound output will be lowered automatically.
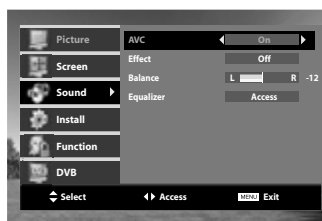
2. Select Sound Effect Mode.
   • The **Effect** changes as follows :
   Off → SPATIAL → 3D Panorama → Off
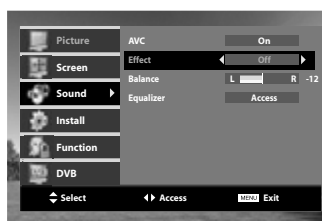
Note :
• 3D PANORAMA: This function generates virtual surround sound from the left and right speaker by expanding the existing surround system function.

3. Select Balance Mode.
   • Move to **Balance** in the **Sound** menu.
   • Select Balance by pressing "◄/►" button, then the sound balance of left and right speaker can be adjusted for equal sound reception from both speakers according to where you are sitting.
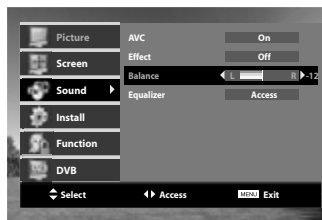
4. To adjust the audio equalizer.
   • Move to **Equalizer** in the **Sound** menu.
   • Select and use the relevant frequency by pressing the "▲/▼" button.
   • You can adjust the degree of the frequency by using the "◄/►" button.
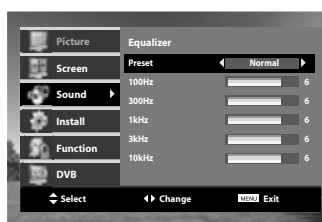
Note :
• Whenever you adjust the audio equalizer, it stores in the Favourite mode.
• Equalizer: High quality sound range adjustment method used for audio product.
   100Hz, 300Hz: Low sound range / 1KHz, 3KHz: Middle sound range / 10KHz: High sound range

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Sound Adjustment

Multi-Sound and Stereo

1. Mono Sound Selection.
  • During Stereo sound reception if the stereo is weak, you can switch to
    MONO by pressing the "⎍/◌/Ⅰ/Ⅱ" button. Then the colour of "MONO"
    character will change to Red. In Mono reception the depth of sound is
    improved.
  • To switch back to stereo, press the "⎍/◌/Ⅰ/Ⅱ" button again.

PR 19   - - - - -
Mono
Full Screen

PR 19   - - - - -
Mono
Full Screen

Note :
• "⎍/◌/Ⅰ/Ⅱ" only works in RF mode.

2. Adjustment of Bilingual sound.
  • In bilingual broadcast reception, you can switch from Dual 1 to Dual 2
    by pressing the "⎍/◌/Ⅰ/Ⅱ" button repeatedly.

PR 19   - - - - -
Dual 1
Full Screen

PR 19   - - - - -
Dual 2
Full Screen

40
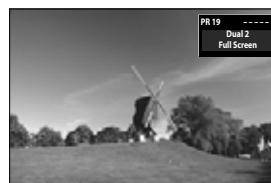
Analogue Menu Language Selection

1. Press the "MENU" button and select "Function".
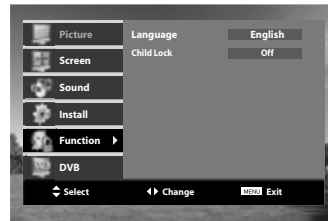
2. Select "Language" by pressing "◀/▶" button.

3. Select your desired language by pressing the "◀/▶" button. Then it will set automatically.
   The language changes as follows.
   English → German → French → Spanish → Italian → Danish → Finnish → Swedish → Greek → Norwegian → Netherland → Portugal → Cheskey → Polish → Romania → Russian → Magyar → Bulgarian
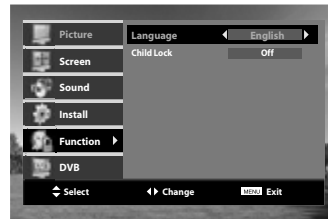
Note :
· When you first turn on the TV set, the "language selection" is displayed automatically.
· When you change the Analogue menu language, the DVB menu language will be changed simultaneously.
· The language you selected in this menu is not DVB menu language, then the DVB menu language will be replaced by English automatically. For example, if you select Finnish for Analogue menu then DVB menu will be set to English (see below table).

Available Language Table

Available in both analogue & digital	English, German, French, Italian, Danish, Portugal, Netherland, Greek, Spanish
Only available in analogue	Finnish, Swedish, Norwegian, Cheskey, Polish, Romania, Russian, Magyar, Bulgarian
Only available in digital	Turkey

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Other Functions

Child Lock

· Move to **Child Lock** in the **Function** menu.
· Select Child Lock to **On** using the "▶" button

Note :
· If stand-by indicator is flashing red, and green then the TV set is in child lock mode. It is necessary to use the remote control **POWER** button, **NUMBER 0...9** buttons, or **PR UP**/**DOWN** buttons to bring the set out of stand-by mode. The local **PR UP**/**DOWN** buttons on the TV set will not function. Once on, the stand-by indicator turns to green and the picture appears on the screen.

Picture	Language	English
Screen	Child Lock	◄ Off ►
Sound		
Install		
Function ►		
DVB		
↕ Select	◄▶ Change	MENU Exit

Sleep

· By pressing the "**SLEEP**" button on the remote con-
troller repeatedly, you can select one of the follow-
ing settings:
Sleep Timer: OFF → 15 → 30 → 45 → 60 → 75 → 90 →
105 → 120 → OFF
· The set will turn off after the time you select.

Note :
· If an active signal is not present for about 10 minutes, the set will automatically turn to ST-BY mode.

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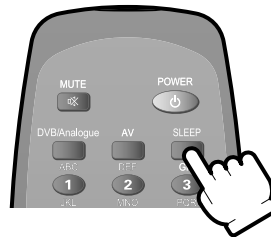
Sudoku Game
(option)

Sudoku Game

- This TV set allows you to enjoy playing the Sudoku game, it offers 3 levels of difficulties, enables you to save your grid and resume it later.

ENTERING / EXITING GAME MODE

Pressing "**GAME**" key on your remote handset will switch the TV Set into game mode. If you press the same key in game mode, you will exit game mode without saving your grid.
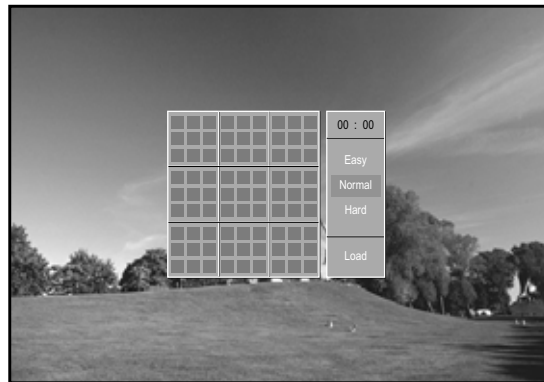
STARTING THE GAME

You can either decide to resume your last game or start a new game.
To start a new game, move the cursor to desired level:
Easy, **Normal** or **Hard** and press "**OK**" button.
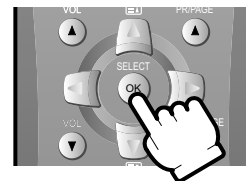
To recall an old game, move the cursor down to the "**Load**" menu and press "**OK**" button.

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Sudoku Game
(option)

PLAYING

Use direction keys on the remote handset to move cursor to the desired position. Press digit keys to enter a number. It is always possible to overwrite a number previously entered.

Trials and errors:

- To erase a cell press "**0**".
- You might want to draw some numbers in a different colour (trial numbers) because you need to fill up more cells to confirm that your option is valid. This can be done by typing twice the same digit. Once you have confirmed the number is correct, you can press again the same digit key to change the colour.
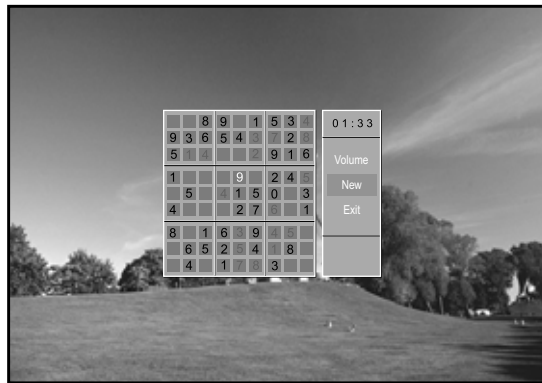
NEW GAME

At anytime you can ask your TV set to create a new grid. This can be done by moving the cursor to the right hand side on the "**New**" menu, and pressing "**OK**" button. Then you will be asked to select a level to create a new grid.

ADJUSTING AUDIO VOLUME

To control audio volume in game mode, you must move the cursor to the right hand side of the screen on the "**Volume**" menu. Then pressing "◀/▶" key enables you to decrease / increase volume. Press "▲/▼" key to exit from this audio adjustment mode.

EXIT AND SAVE

If you wish to exit the game and save your grid, for further play, move the cursor to the right hand side on the "**Exit**" menu, and press "**OK**". This will close the game and return to normal TV mode.

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Teletext

SWITCHING TELETEXT ON/OFF
Press the "**TEXT**" button (▤).
The index page or the page viewed last will appear.
Press the "**TEXT**" button again to return to the TV mode.
NOTE: Teletext works only in TV/AV mode. However digital broadcasts have digital text. To use digital text press the "**TEXT**" button when in DVB mode.

COLOUR BUTTONS IN TOP (Tables Of Pages) NB. not used in the UK /FLOF (Full Level One Feature) TELETEXT
A red, green, yellow and blue field is shown at the bottom of the screen.
If TOP or FLOF Teletext is transmitted by the station, pressing the corresponding colour button R,G,Y,B on the remote controller, enables you to select the desired page easily.

SELECTING PAGES
The "**NUMBER**" buttons are used to enter a page number. The selected page number appears at the top of the screen and the page appears after a short time. The "▲/▼" buttons increase or decrease the current page number by 1.

INDEX PAGE
You can switch directly to the programme preview (with TOP text) or the overview page of the station you are currently viewing by pressing the "**INDEX**" button (▤).

PAGE HOLD
Several sub pages can be combined under a page number and are scrolled at an interval determined by the television station. The presence of sub pages is indicated by, for example, 3/6 beneath the time, which means that you are looking at the 3rd page of a total of 6 pages. If you want to look at a sub-page for a longer period of time, press the "**HOLD**" button (▤). The HOLD symbol appears and the contents of the sub-page shown are kept on the screen and no longer updated or switched to other sub-pages. By pressing the "**HOLD**" button again, the current sub-page appears.

CALLING UP SUB-PAGE DIRECTLY (option)
Pressing the "**SUBCODE**" button (▤), " - - - - " appears. Enter the sub-page number that you want to call up with the "**NUMBER**" button, for example, the 2nd page, sequence 0002. The desired sub-page will eventually be displayed on the screen and it will be held there. Meanwhile whilst you are waiting, it is possible to go back to the TV picture by pressing the "**T.CANCEL**" button (▤) on the remote control and after a while, press the "**T.CANCEL**" button again to revert back to the saved Teletext sub page.

WATCHING TV DURING TELETEXT MODE
Some pages are continually updated, for example, stock market reports, sports announcements, and the latest news. If you want to watch television and stay informed at the same time, press "**T.CANCEL**" button (▤).
The regular programme is still visible and the updated Teletext page number appears at the top of the screen.
By pressing the "**T.CANCEL**" button again, the Teletext page appears with the updated information.

REVEAL ANSWER
This function can be used on certain pages to reveal the solution of riddles.
Press the "**REVEAL**" button (▤) to reveal a hidden answer and press again to hide it.

DOUBLING CHARACTER SIZE
Repeatedly pressing the "**SIZE**" button (▤) doubles the character size in the following order:
Upper half of the page → Lower half of the page → Normal size → Upper half of the page
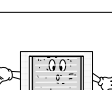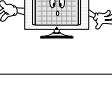
CONTRAST CONTROL
This is only for teletext display. You can adjust CONTRAST for 4 steps by pressing left (for decreasing) / right (for increasing) cursor key on the remote control (no menu like bargraph will displayed). And leave teletext mode and enter again then changed contrast value will be applied to teletext screen.

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Troubleshooting

Symptoms and Solutions

Please check the following list prior to calling Daewoo Electronics Customer Service Centre for assistance.

Symptom	Check items
Neither picture nor sound	- Check the contact of sockets is OK. - Check the TV main power is on.
Picture is OK but no sound	- Check the Volume control is not set to minimum or mute.
Sound is OK, but no colour.	- Check the colour control and adjust it properly. - Check the program is in colour and not in black & white.
The picture has ghost image.	- Picture ghost image is caused by signals reflecting from large buildings. To improve move antenna for best reception or instal an aerial with a small pick up foot print. - Check the antenna is installed correctly and if not, adjust the antenna towards the broadcasting transmitter.
Picture has "snow noise".	- Check the antenna is installed correctly and if not, adjust the antenna towards the broadcasting transmitter. - Check the antenna or its connection is correct and if not, correct the antenna fault or connection cable fault. - Check if car traffic or neon sign disturbs the sound effect.
Stripes on picture.	- Check the susceptible interference by other electronic devices such as radio and television and keep magnetic or electronic devices away from the TV.
Bad stereo or Dual sound.	- Long distance from the station or other radio waves can generate bad sound reception. If so, change the mode to Mono.
Remote control does not work.	- Check if the batteries in the Remote control are dead. - Check if any object between IR sensor of the TV and the Remote control is not obstructing the infra red beam.

Troubleshooting

In PC mode

Symptom	Check items
"NO SIGNAL" appears on the screen.	- Ensure that the signal cable is firmly connected to PC and TV. - Check the resolution and frequency of your PC. Then, adjust them to optimum condition for LCD TV. - Refer to the table of PC mode input format (If registered resolution and frequency on the table not listed then no picture will be displayed.)
Image is not clear.	- Adjust the PHASE control.
Image is not centred.	- Adjust the H-POSITION and V-POSITION control.

• **AFTER SALES SERVICE**
  Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

Specifications

Model		DLT-19W4T	DLT-20J1T/J3T/J9T	DLT-22W4T
Screen Size		480mm (diagonal)	510.54mm (diagonal)	558.673mm (diagonal)
Display Colour		16.7 M		
Aspect Ratio		16:10	4:3	16:10
Resolution		1440 x 900 (WXGA+)	640 x 480 (VGA)	1680 x 1050 (WSXGA+)
Pixel Pitch		0.2835 x 0.2835	0.6375 x 0.6375	0.2835 x 0.2835
Contrast Ratio		1000:1	350:1	1000:1
Appearance (W x H x D)	w/o stand	476.3 x 346 x 80	514 x 460 x 85	545.4 x 400 x 81
	with stand	476.3 x 401.5 x 190	514 x 498 x 239	545.4 x 426 x 81
Weight (Net)	w/o stand	4.9 Kg	7.0 Kg	5.6 Kg
	with stand	5.2 Kg	8.0 Kg	5.9 Kg
Power Consumption		42 W	52 W	50 W
Sound Output		2.0W + 2.0W		
Terminals		AV IN : SCART, COMPOSITE VIDEO, AUDIO L/R, COMPONENT, PC, HDMI HEADPHONE : 3.5mm STEREO MINI-JACK DIGITAL AUDIO OUT: Coaxial ANT. IN : COAXIAL-TYPE		
Reception Channel		VHF BAND I : CH2-CH4 BAND II : CH5-CH12 UHF HYPER BAND : SI'-S3', S1-S20 BAND IV, V : CH21-CH68 PAL-B/G, D/K, SECAM-L/L', NTSC(AV input only)		
Power Source		AC 220 ~ 240V, 50Hz		

Owing to our policy of continuous improvement, specifications may change.

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