



LCD TELEVISION INSTRUCTION MANUAL

DLP-20J1
DLP-20D7
DLP-20W2

PAL B/G, D/K, I/I,
SECAM B/G, D/K, L/L', NTSC(AV)

TELETEXT
SCART/VIDEO/S-VIDEO
MULTI-LANGUAGE OSD

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 a risk 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.



DISPOSAL OF USED ELECTRICAL & ELECTRONIC EQUIPMENT

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 equipments 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 to the environment and to human health, which could otherwise be caused by unsuitable waste handling of this product. 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.

Safety Precautions

1. CLEANING

Unplug this TV equipment from the AC power outlet before cleaning. Do not use liquid cleaner or aerosol cleaners. Use a soft and damp cloth for cleaning.



2. ATTACHMENTS

Do not use attachments not recommended by the TV equipment manufacturer as they may result in the risk of fire, electric shock or other injury.



3. WATER AND MOISTURE

Do not place this TV equipment near water, for example, near bathtub, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, or the like.

4. HEAT

Keep the TV equipment away from the heat sources such as radiator, heater, stoves and other heat-generating products.



5. SETTING

Do not place this TV on 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.



6. WALL OR CEILING MOUNTING

When mounting the product on a wall or ceiling, be sure to install the product using the designated mounting tool according to the method recommended by the manufacturer.



7. POWER

This TV equipment 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 TV dealer or local power company.



8. PIXEL AND FIXED IMAGE

The LCD panel is a very high technology product with 921,600 (DLP-20J1, DLP-20D7); 3,147,264 (DLP-20W2) thin film transistors which give you fine picture details.

Occasionally, a few non-active 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.

A fixed image should not be displayed during hours, otherwise trace of this image may appear on the screen.

9. SET MOVING

When moving the product, place your fingers of one hand in the socket on the back of the CTV and support the front of the TV with the other hand.

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Important Safeguards

Location

Heat, Moisture, Dust, Vibration

Position your set so that bright light or sunlight doesn't fall directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Do not expose the set to dripping or splashing.

Ventilation

Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on the back cover. Leave at least 10 cm around each side of the TV set.

Mounting

This set can be positioned by using the table top stand or wall mounting bracket. When you install the set using the wall mounting bracket, fix it carefully so it is secure.

Object Entry

Do not insert foreign objects, such as needles and coins, into the ventilation openings.

Lightning striking

You should disconnect your set from the mains and the aerial system during thunderstorms.

Cleaning

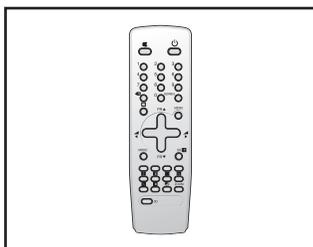
Unplug the set from the mains before cleaning. Dust the set by wiping the LCD screen and the cabinet with a soft, clean cloth. If the screen requires additional cleaning, use a clean, damp cloth. Do not use liquid cleaners or aerosol cleaners. Do not rub or strike the LCD with anything hard as this may scratch, or damage the LCD permanently.

Service

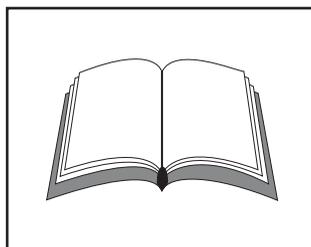
Never remove the back cover of the set as this can expose you to high voltage and other hazards. If the set does not operate properly, unplug it and call your dealer.

Supplied Accessories

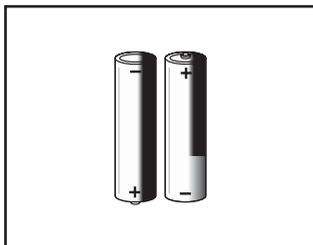
Make sure that the following accessories are provided with the product.



Remote controller



Instruction manual



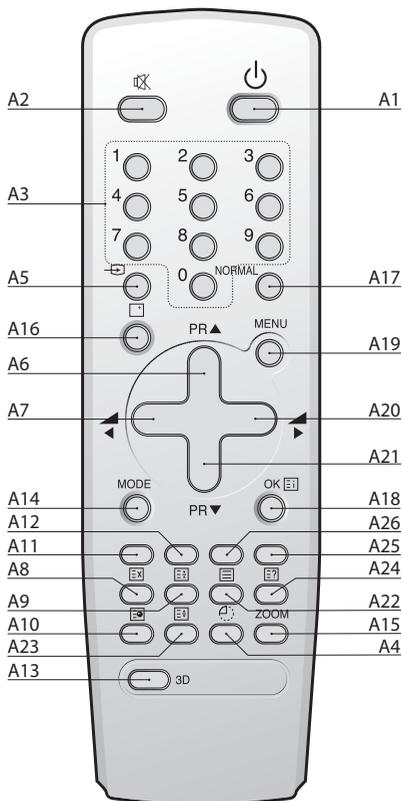
Batteries (Option)
(2 x 1,5V, AAA)

Functional Overview

Remote controller

TV mode

- A1** POWER
- A2** SOUND MUTE
- A3** NUMBER 0..9
- A4** SLEEP
- A5** TV / AV
- A6** PROGRAM UP (CURSOR UP)
- A7** VOLUME DOWN (CURSOR LEFT)
- A8** .
- A9** .
- A10** .
- A11** SKIP
- A12** MOVE
- A13** 3D(SOUND EFFECT)
- A14** MODE
- A15** ZOOM
- A16** RECALL
- A17** NORMAL
- A18** OK/PRESET/HEADPHONE VOLUME
- A19** MENU
- A20** VOLUME UP (CURSOR RIGHT)
- A21** PROGRAM DOWN (CURSOR DOWN)
- A22** TV → TELETEXT
- A23** .
- A24** .
- A25** .
- A26** DELETE / QUICK LIST - (OPTION)

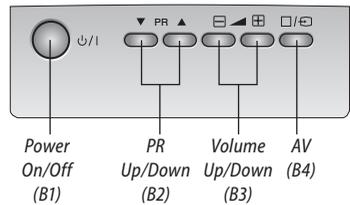
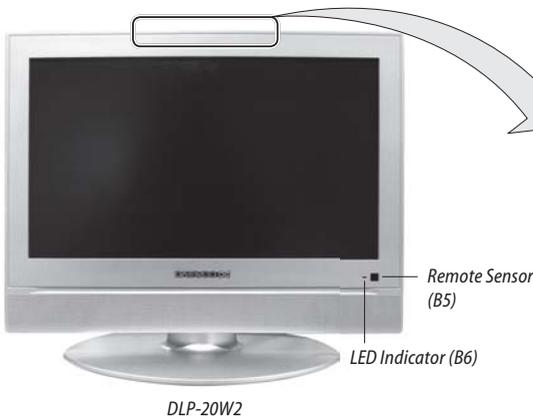
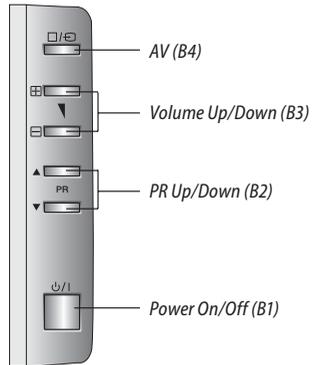
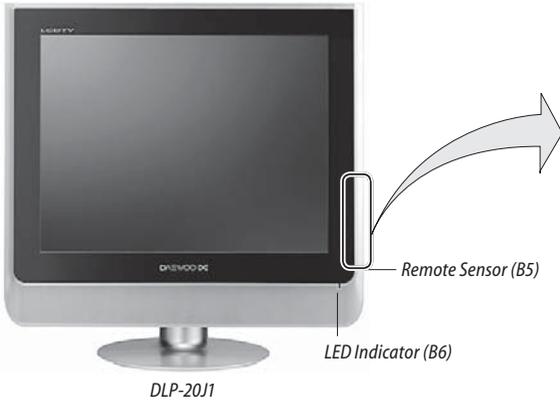
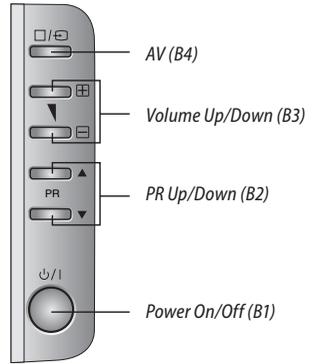
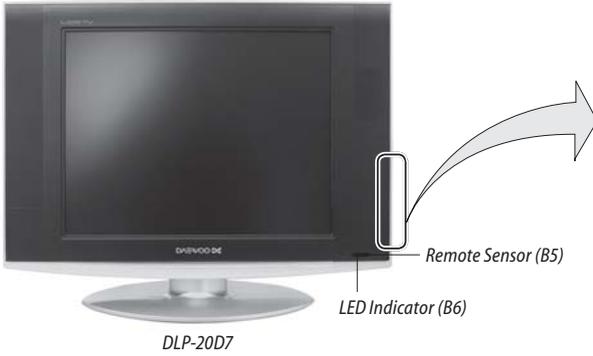


TELETEXT mode

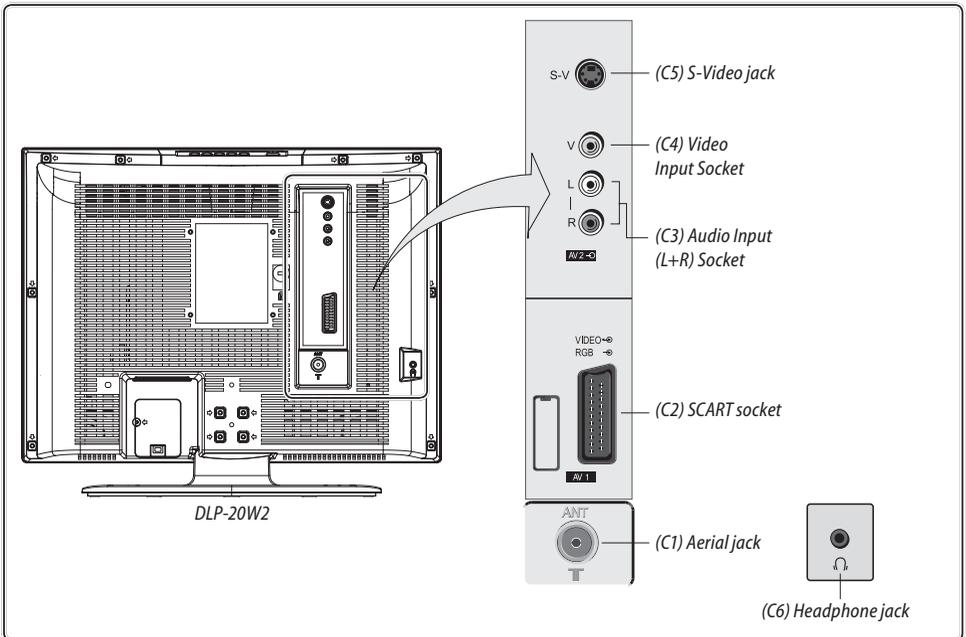
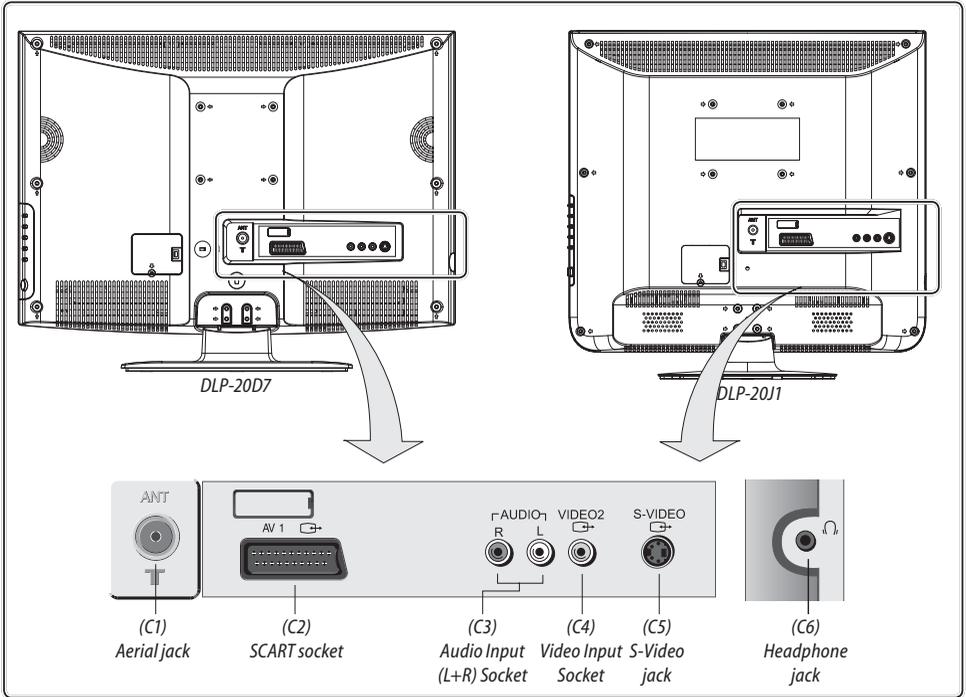
- A1** POWER
- A2** SOUND MUTE
- A3** NUMBER 0..9
- A4** .
- A5** .
- A6** PAGE UP
- A7** VOL/BRIGHT DOWN
- A8** CANCEL
- A9** PAGE HOLD
- A10** SUBPAGE
- A11** RED
- A12** GREEN
- A13** .
- A14** .
- A15** .
- A16** .
- A17** .
- A18** INDEX
- A19** VOL/BRIGHT MENU SELECTION
- A20** VOL/BRIGHT UP
- A21** PAGE DOWN
- A22** TELETEXT → TAT → PAT → TV
- A23** HEIGHT
- A24** REVEAL
- A25** CYAN
- A26** YELLOW

Local Control

Front



Rear

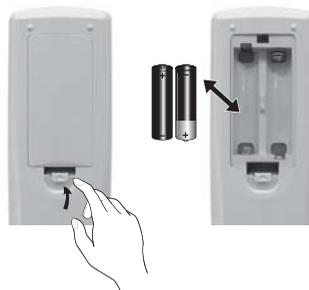


Preparation

Inserting Batteries into the Remote Control Unit

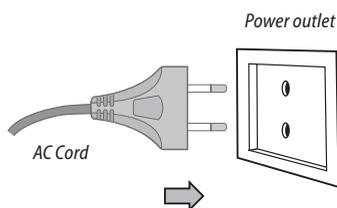
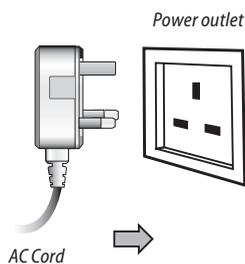
To load the batteries, turn the remote control handset over and open the battery compartment. Insert the batteries (Two 1.5v, type R03 or AAA). Make sure that the polarity matches with the (+) and (-) marks inside of the battery compartment.

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.



Mains Connection

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

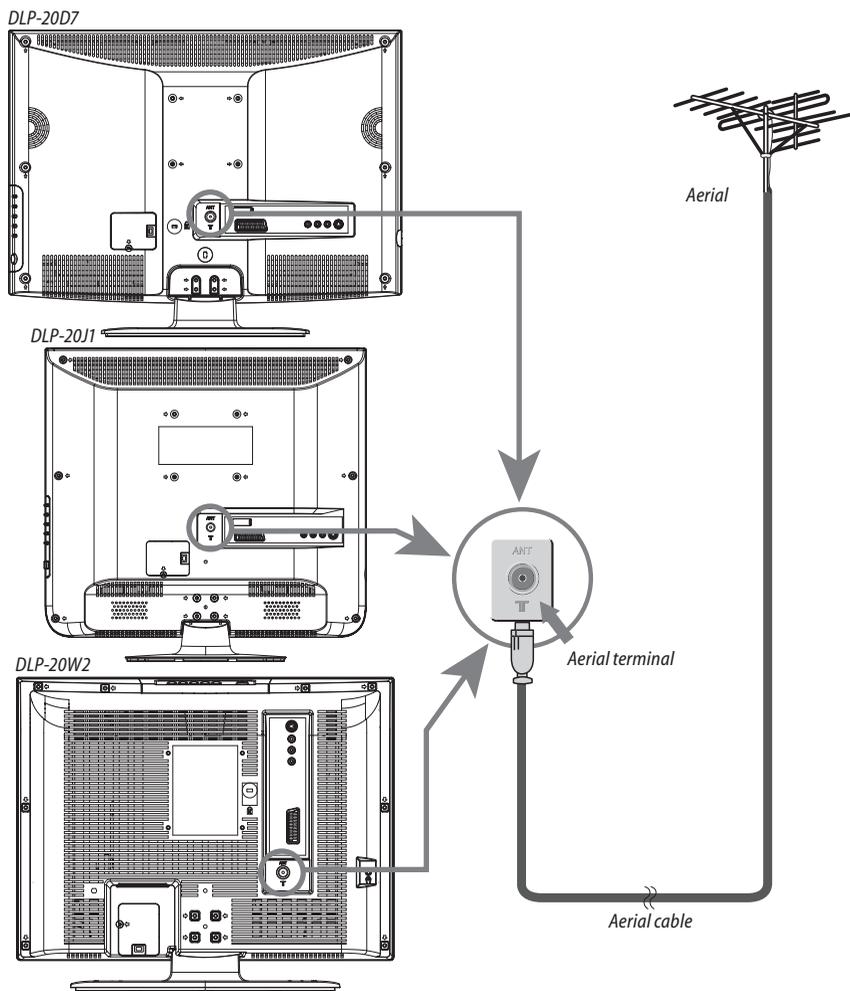


Preparation

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.



Preparation

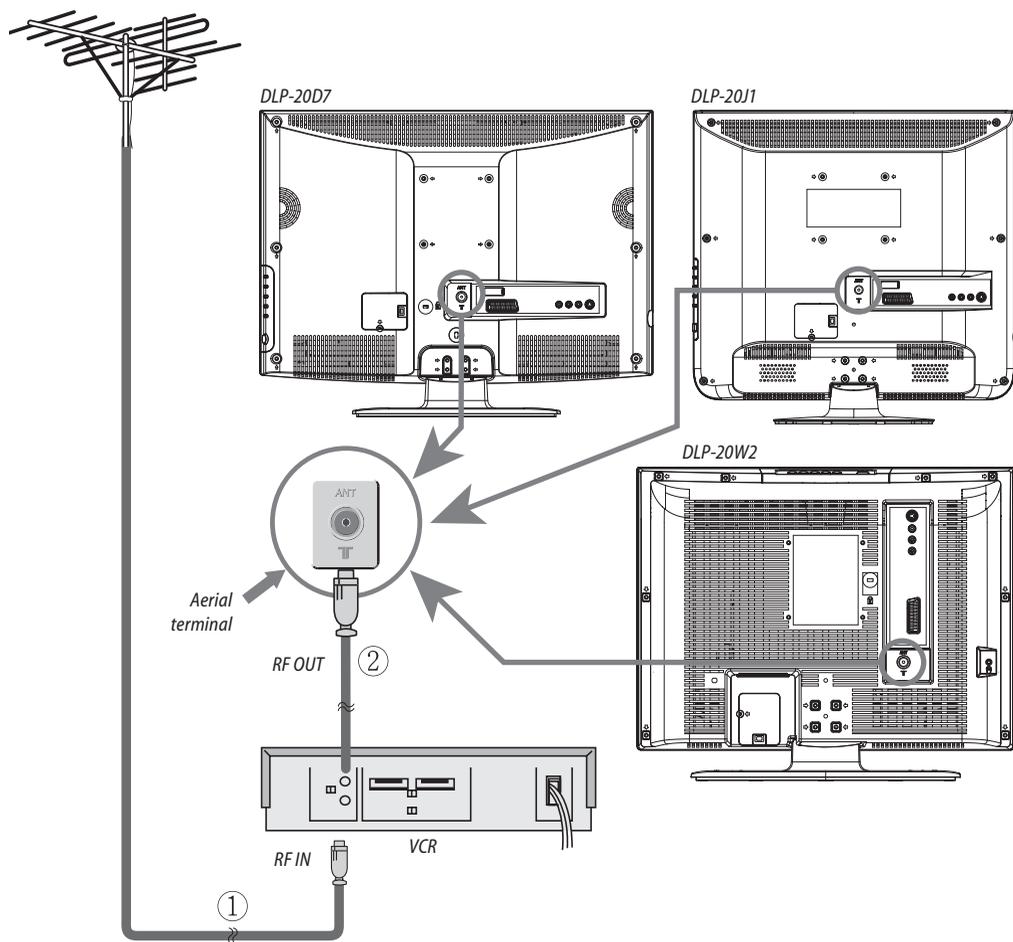
AERIAL CONNECTION WITH VCR

Connect your ① aerial cable to the RF(aerial) IN terminal on the VCR.

Connect the RF OUT terminal of the VCR to the Aerial terminal on the TV set with ② RF cable.

NOTE: If you wish to use only the Aerial (RF) connection, then you should store the VCR channel on programme number "ZERO" using the "Manual tuning" function (See page 23).

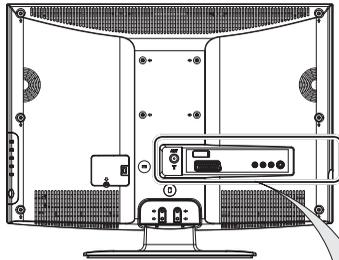
Now you can watch the VCR in TV mode by selecting the programme number "PR00".



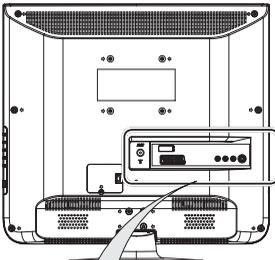
Preparation

Connecting external equipment

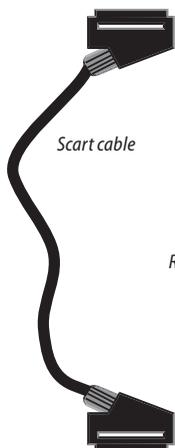
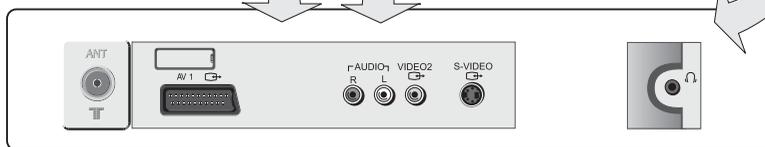
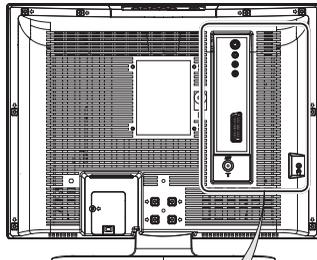
DLP-20D7



DLP-20J1



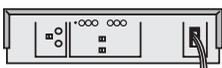
DLP-20W2



Scart cable

Set Top Box
VCR/DVD

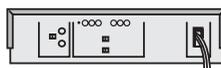
RCA cable



DVD



S-video cable

Set Top Box
VCR/DVD/Camcorder/
Video Game

Headphone



Preparation

TV/AV MODE SELECTION

Press the TV/AV( / ) button on the control panel repeatedly to select the source. You can also select the source using TV/AV( / ) button on the remote controller.

TV → AV1 → AV2 → S-VIDEO → TV

In TV mode, you can change the TV programme number with the **UP/DOWN** button or the **NUMBER** button.

NOTE: When the TV SET has no signal, a screen saver will appear on the screen.

AV INPUT JACK (AV2)

This jack has video / audio inputs.

It is used to connect a VCR, Camcorder, DVD, STB, Video game.

S-VIDEO INPUT JACK

It has Y/C inputs. This jack is used to connect S-Video equipment.

SCART JACK (AV1)

This jack has video / audio inputs and outputs, RGB inputs.

It is used to connect a STB, VCR, DVD.

When the signal is RGB, the TV set switches automatically to AV1 mode.

In most cases, the TV set switches automatically to AV1 mode, when the external equipment is connected in playback mode. If not, then use the AV button to select AV1.

HEADPHONE JACK

Insert the headphone plug (3.5 mm \varnothing) into this jack().

You can control the headphone sound with the OK button on the remote controller (see page 17).

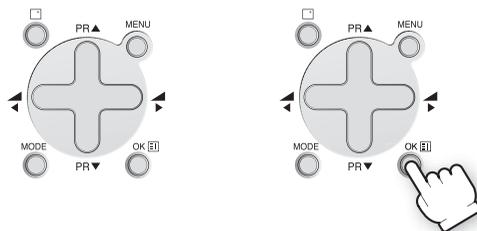
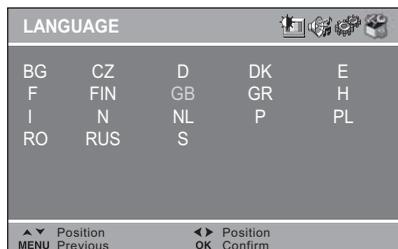
Start Up

Language Menu

The very first time that you turn on the TV, the LANGUAGE menu will appear on the screen. Its purpose is to enable you to select the language that will be used for all the OSD (On Screen Display) menus. The user must enter a choice of language before proceeding further.

The language entered at this stage can still be modified at any later time, by entering the LANGUAGE menu (accessed from the FEATURES menu: see later section under MENU DESCRIPTION).

The descriptions used in the menu are those of the country code (e.g. GB = English, NL = Holland etc).



Selection is made by use of the remote control CURSOR UP (A6) / CURSOR DOWN (A21) keys and CURSOR RIGHT (A20) / LEFT (A7) keys.

Once you are satisfied with your selection, push the OK button (A18) to confirm your choice. The choice will briefly highlight in red, after which the menu will disappear.

Note: The languages shown are subject to modification without prior notice.

Automatic Tuning

Automatic Tuning System

If you have a satellite decoder: If your decoder is connected to the TV set by the aerial jack (C1), you must power on the demodulator and tune Sky News before starting ATSS.

ATSS = Automatic Tuning and Sorting System. To start the ATSS function:

- Select "ATSS" function.
- Adjust to the required country.
- Press and hold the OK button (A18) to start the automatic tuning.

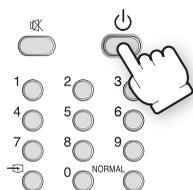
The ATSS function has started when the phrase "Please Wait !" appears (in red characters) in the help instructions box, below the Install menu. At this point release the OK button.

When the ATSS function is finished, the stored programs are displayed on screen using Edit menu presentation (to Exit tuning before automatic tuning is finished, press the remote control MENU button (A19)).

Daily Use

Switching On TV Set

- 1) If stand-by indicator (B6) is red, then the TV set is in stand-by mode. You can switch on using the remote control POWER button (A1), the NUMBER 0....9 buttons (A3), or PROGRAM UP (A6) / DOWN (A21) buttons. The front panel PROGRAM UP/ DOWN buttons (B2) can also be used. Once on, the stand-by indicator turns to green and the picture appears on the screen.
- 2) If stand-by indicator (B6) is not lit, then the TV set is powered off. You must press the TV set front panel MAIN POWER button (B1). If a picture does not appear, then the stand-by indicator will be red. In this case, use the remote control as indicated in 1).
- 3) If stand-by indicator (B6) is flashing red, and green then the TV set is in child-lock mode. It is necessary to use the remote control POWER button (A1), NUMBER 0....9 buttons (A3), or PROGRAM UP (A6) / DOWN (A21) buttons. The front panel PROGRAM UP/DOWN buttons (B2) will not function. Once on, the stand-by indicator turns to green and the picture appears on the screen.

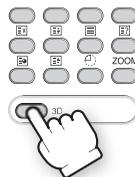


Switching Off TV Set

- 1) Pressing the remote control POWER button (A1), you can switch off to stand-by mode (low power consumption mode) which also allows quick restart by remote control (see above: SWITCHING ON TV SET).
- 2) Pressing the TV set front panel MAIN POWER button (B1), you can completely power off the TV set. In this case, you must use the same front panel POWER button (B1) to switch on again (see above: SWITCHING ON TV SET).

Remark: If a broadcast signal is not present after 10 minutes, the TV set will automatically turn to standby mode.

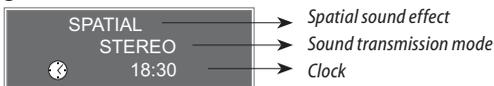
Daily Use



Sound effects

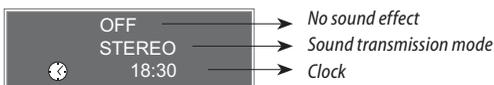
A SPATIAL sound effect is available, using the remote control 3D (A13) button.

The following display appears:



To return to initial sound effect, press again the 3D (A13) button.

The following display appears:



As an option, the sound effects PANORAMA and Dolby Virtual are available with the same button. For other adjustments such as BALANCE, EQUALIZER or AVL(option), use the SOUND menu (page 21).

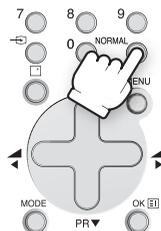
Manufactured under license from Dolby Laboratories, "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Picture Control

You can select three pictures settings, by using the remote control NORMAL button (A17) :

- Normal I (standard hard picture)
- Normal II (standard soft picture)
- Favourite

For other adjustments: BRIGHTNESS, CONTRAST, COLOUR, SHARPNESS, NOISE REDUCTION, use the PICTURE menu. If an NTSC signal is received, then the TINT adjustment will also be available.



Sleep Function

The set will turn off (to stand-by mode) after a period of time that you can select. By repeated use of the remote control SLEEP button (A4), you can enter one of the following settings :



OFF → 20 min → 40 min → 60 min → 80 min → 100 min → 120 min → OFF

Daily Use

Format Selection

AUTO setting :

If picture format signalling data is received, then the most appropriate ZOOM format will be automatically selected. In the absence of this data, the default ZOOM format will be selected (see page 25, ZOOM AUTO function under FEATURES MENU). Otherwise, the preferred mode of the user can be forced by repeated pressing of the remote control ZOOM button (A15):

Television Format

The following picture formats are available:

AUTO → WIDE → ZOOM → FULL SCREEN → WATERGLASS → AUTO (DLP-20J1, DLP-20D7)

AUTO → 4:3 → FULL SCREEN → ZOOM 14:9 → TITLE-IN 14:9 → ZOOM 16:9 → TITLE-IN 16:9 → AUTO (DLP-20W2)

Remark: If HD source is received, picture format will automatically set to AUTO. (above various picture formats are not available)

Menus Language Selection, Child Lock, Clock Setting, Wake Up, Noise Reduction

These functions are available in the Features menu (see description page 25).

CHILD LOCK

This function only allows the TV to be turned on using the remote control. Once the user has set this CHILD LOCK to ON, it will remain in this condition until the user changes it again.

WAKE UP

It is necessary to have set the clock (either manually or automatically) in order to be able to use this function. If the clock is not set (---:-- is shown) then the WAKE TIME and WAKE PROG. will not be selectable. The default setting for WAKE TIME is in the "OFF" position. After each use (the TV turns on according to the previous setting) the WAKE TIME will be returned to the "OFF" position, conserving always the last time setting entered ready for re-use.

CLOCK SETTING

The TV will automatically attempt to set the clock when powered on (with the MAIN POWER button). It takes as reference information embedded in the teletext signal of the channel defined by CLOCK PROG. Therefore, automatic clock setting is only possible if teletext is available on this channel. If no time is captured automatically (the clock will show - - : - -), then the TV will try again to set the clock whenever turning on from standby mode. Alternatively, the user can enter the time manually using the CLOCK function. However, if this is done the clock will not be periodically updated as would happen if the time is set automatically. We recommend that the user choose (if available) a CLOCK PROG which allows the time to be updated automatically.

DEFAULT ZOOM CONTROL

If the ZOOM control is set to AUTO (A15, see page 19 and 25, FORMAT SELECTION), then the picture format presented is controlled by the received picture format signalling data embed-

Menu Description

ded in the transmission. In the absence of this signalling data (as can often be the case) a default format must be used. This default format can be selected by the ZOOM AUTO function.

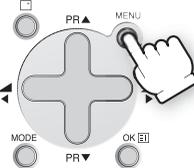
LANGUAGE

This can be changed at any time by the user in the LANGUAGE menu (accessed via the FEATURES menu).

Main Menu

All menus are removed within 60 seconds if you don't press any button. Press the remote

control MENU button (A19) to display the main menu. Then, you have the choice between several sub-menus: If you want to Exit the main menu, press the MENU button (A19) a second time.



- To select one of the sub-menus, use the remote control CURSOR UP (A6), DOWN (A21) buttons.

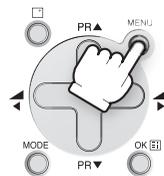
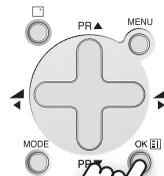
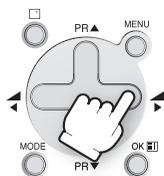
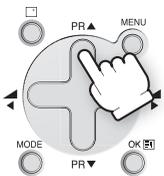
- To enter the selected sub-menu, press the remote control OK button (A18).

Remark: In AV/S-VIDEO mode, the INSTALL menu is not available and will not be selectable.

How to use the sub-menus

The sub-menus referred to here are: PICTURE, SOUND, INSTALL, FEATURES.

- Adjust the function using :



- Select the desired Position by using the remote control CURSOR UP (A6) or DOWN (A21) buttons.

- The remote control CURSOR LEFT (A7) or RIGHT (A20) buttons if you want to modify the function value.

- The remote control NUMBER 0...9 buttons (A3) to enter directly new data.

- Store (if needed) by pressing the remote control OK button (A18).

- Then Exit to main menu by pressing the MENU button (A19).

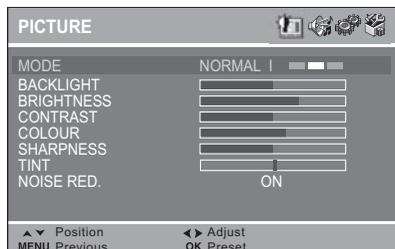
Menu Description

Picture Menu

(For operating instructions, see page 20, HOW TO USE THE SUB-MENUS)

- Select and adjust the level of each function : BACKLIGHT, BRIGHTNESS, CONTRAST, COLOUR, SHARPNESS, TINT (if available).
- The above modified values are automatically stored in FAVOURITE mode.
- NOISE REDUCTION feature can be activated or not.
- The OK (A18) or NORMAL button will select the picture presets FAVOURITE, NORMAL I, NORMAL II. The currently selected preset will be displayed in the mode menu.
- The FAVOURITE preset contains the settings that you last entered.

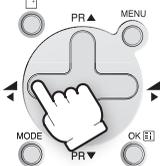
If the NTSC standard is detected (eg from VHS player connected to AV1), then TINT will be available. Otherwise TINT will be displayed, but not selectable.



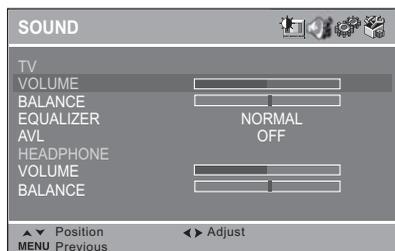
Sound Menu

(For operating instructions, see page 20, HOW TO USE THE SUB-MENUS)

By selecting Sound menu, you can adjust volume level of TV and Headphone.



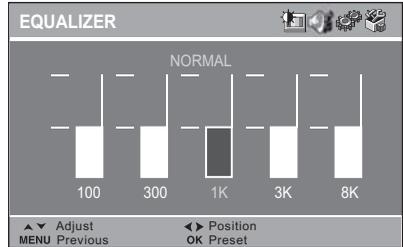
- Select VOLUME function to adjust the volume level.
- Select BALANCE function to adjust sound balance between the left and right speakers. If the indicator is highlighted in red, then the central balance position has been found.
- Use the EQUALIZER function to select the sound presets NORMAL, SPEECH, MUSIC, FAVOURITE by use of the CURSOR LEFT (A7), RIGHT (A20) buttons. The FAVOURITE preset contains the settings that you last entered into the EQUALIZER menu.
- The OK button (A18) will enter the EQUALIZER menu, and allow you to change the FAVOURITE settings.
- Automatic Volume Level (AVL, Option) feature has 4 levels according to your preference. This feature corrects for large volume level changes, such as occur when passing from a movie to advertisements. The AVL solves this problem by equalizing the volume level, over a SHORT, MEDIUM or LONG period (referring to the time constant over which the equalizing effect lasts).



Menus Description

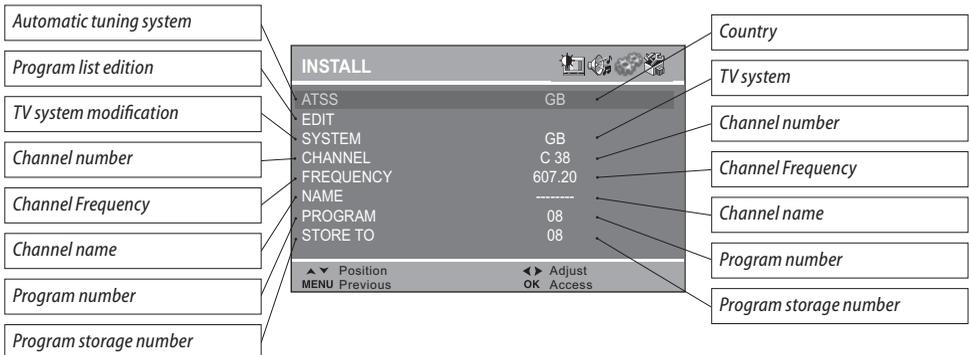
Equalizer Menu

- Select the equalizer band by use of the CURSOR LEFT (A7) or RIGHT (A20) buttons.
- Adjust the level of each of the 5 equalizer bands, 100Hz, 300Hz, 1000Hz, 3000Hz, 8000Hz, by use of the CURSOR UP (A6) and DOWN (A21) buttons.
- The above modified values are automatically stored in FAVOURITE mode.
- The OK button (A18) will select the sound presets NORMAL, SPEECH, MUSIC, FAVOURITE. The currently selected preset is displayed.
- The FAVOURITE preset always contains the settings that you last entered.



Install Menu

(For operating instructions, see page 20, HOW TO USE THE SUB-MENUS)



Automatic Tuning System

If you have a satellite decoder: If your decoder is connected to the TV set by the aerial jack (C1), you must power on the demodulator and tune Sky News before starting ATSS.

ATSS = Automatic Tuning and Sorting System. To start the ATSS function:

- Select "ATSS" function.
- Adjust to the required country.
- Press and hold the OK button (A18) to start the automatic tuning.

The ATSS function has started when the phrase "Please Wait!" appears (in red characters) in the help instructions box, below the Install menu. When the ATSS function is finished, the stored programs are displayed on screen using Edit menu presentation (to Exit tuning before automatic tuning finished, press the remote control MENU button (A19))

Edit Menu

This allows you to easily manipulate the existing program order allocation, by using Edit menu functions described below.

Program number	PR	NAME	CH	SKIP
	07	BBC1	C 23	<input type="checkbox"/>
Station name	06	BBC2	C 33	<input type="checkbox"/>
	05	-----	S 41	<input type="checkbox"/>
Channel number	04	-----	S 41	<input checked="" type="checkbox"/>
	03	-----	S 41	<input type="checkbox"/>
	02	-----	S 41	<input type="checkbox"/>
	01	-----	S 41	<input type="checkbox"/>

Skip Move Delete
 MENU Previous Position

Skip code
 ✓ : Program skipped
 Nothing : Program not skipped

To enter the EDIT menu: From Install menu, select "Edit", and press the OK button (A18): the EDIT menu appears.

The current program being displayed is highlighted in blue (on the central line). In the above case, the current program is PR00. The 3 previous, and 3 following programs, are always displayed. Any program from 00 to 99 can be selected, by using the remote control CURSOR UP (A6) / DOWN (A21) buttons. The memorised programs can be modified as follows :

Channel skipping

- You can select skip "YES" or "NO" using the remote control RED "Skip" button (A11).

A program with skip "YES" doesn't appear on screen when changing channels with the PROGRAM UP (A6)/ DOWN (A21) buttons.

Channel deleting

- Select the program to delete using the remote control CURSOR UP (A6) / DOWN (A21) buttons.

- Press the remote control YELLOW "Delete" button (A26). The deleted program is moved to program number 99 with skip changed to "YES". The existing 99 program is moved to program number 98 and so on.

Channel order changing

- Select the program to move using the remote control CURSOR UP (A6) / DOWN (A21) buttons.

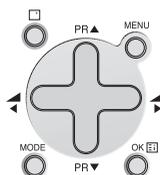
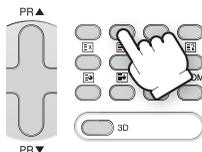
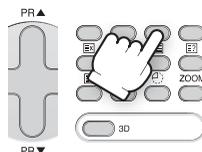
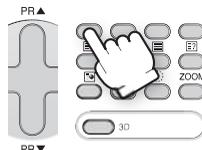
- Press the remote control GREEN "Move" button (A12): the program line background is highlighted in green, and can be moved to another position using the remote control CURSOR UP (A6)/ DOWN (A21) buttons.

- When the desired position is reached, confirm the new position pressing the remote control GREEN "Confirm" button (A12). Then the program line background will return again to blue.

Manual Channel Tuning

Choose a starting point.

- Select with "Program" the program from which you want to start manual tuning. Then the channel number, the frequency, the name and the program number of this program are displayed in the Install menu.



Channel searching

- Select the "Frequency" function.
- Press, and hold for more than 1 second, the remote control CURSOR RIGHT (A20) LEFT (A7) 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 (A19)).

Note: You can directly locate a program by entering the data into the "channel" or the "frequency" function.

Enter station name

It is possible to enter your own choice of name for each program. You can change an existing name, or enter a name where none exists. If none exists "-----" will be shown in the Install menu, and program status display.

- Select the "NAME" function.
- Select one of the 7 character positions by using the remote control CURSOR RIGHT (A20) / LEFT (A7) buttons to move the cursor.
- Then use the CURSOR UP (A6) /DOWN (A21) buttons to select the desired character for that position.
- Repeat the last two instructions for other positions, as desired.
- Once the name has been entered, press the OK button (A18) to store it. The name will be memorised to the program number currently shown on the "Store To" line. The "Store To" program number will highlight in red briefly.

TV system modification

If necessary, you can modify the TV system :

- Select "system" function.
- Adjust choosing between FRANCE (L/L'), GB (I), EURO (B/G), E/ EURO (D/K) systems. Then, the program displayed on the screen is changed to the chosen system.

Perform fine tuning

- If you are unable to get a good picture or reasonable quality sound due to poor reception, it is possible to perform fine tuning.
- Select the "frequency" function.
- Press, for less than 1 second, the remote control CURSOR RIGHT(A20) [LEFT(A7)] buttons to perform up [down] fine tuning in steps of 0.05MHz (50 kHz).

Store program in memory

- Select the "store to" function
- Enter the program number you want to store to either by using the remote control CURSOR RIGHT (A20) / LEFT (A7) buttons, or directly by using the remote control NUMBER 0...9 buttons (A3).
- Press the OK button (A18) to confirm.

Remarks: this function can also be used if you want to copy a program already memorised to another program number.

Features Menu

See section near the end of section DAILY USE for a more detailed explanation of these functions.
(For operating instructions see page 20, HOW TO USE THE SUB-MENUS)

1. When switched to ON:
Prevents the use of the TV set without remote control

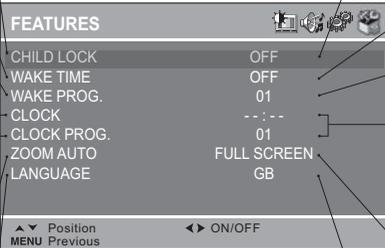
2. Wake up function
This function is only selectable when the clock is set. The TV set turns on from stand-by at the WAKE TIME with the programme entered on the WAKE PROG. line. Put the TV set on stand-by with the remote control.

3. Shared with WAKE TIME.

4. TV clock setting
This function allows user to enter the time manually.
Note : If you turn off the set with the main power button, the clock setting is lost. An automatic attempt is made to set the clock again at power on.

5. This function is only selectable when the default picture format is currently active (see also FORMAT SELECTION, AUTO setting, page 19). This selects the default format to be used only when the format selected with the ZOOM button (A15) is AUTO, and no picture format signalling data is received.

6. LANGUAGE menu entry.



1. Adjust this value ON or OFF.
- In stand-by mode, the stand-by indicator flashes red and green to indicate the CHILD LOCK is set.
- The front panel TV buttons (B2, B3, B4) become inactive and the TV will only respond to the remote control.

2. Switch the WAKE UP function OFF or 'ON' (the time will be shown e.g. 07:15) with the remote control CURSOR LEFT (A7) /RIGHT (A20) buttons
- Enter the wake up time with the remote control 0...9 NUMBER (A3) buttons.

3. Adjust TV turn-on program number.

4. Adjust TV clock. Clock will start at 0 seconds upon entry of the 4th figure.
The prog. no. which can be used to automatically seize the time at turn on can be entered here.

5. Choose your preferred default format with the remote control CURSOR LEFT (A7) /RIGHT (A20) buttons.
Note : For 4:3 TVs FULL SCREEN is represented by 4:3. For 16:9 TVs FULL SCREEN is represented by 16:9.

6. The currently selected LANGUAGE is displayed. Press the OK button (A18) to access the menu and change the selection.

Language Menu

- Select the preferred LANGUAGE by use of the CURSOR LEFT (A7), RIGHT (A20) buttons, and the CURSOR UP (A6) or DOWN (A21) buttons.
- Press the OK button (A18) to confirm the selection (the choice will be highlighted in red).

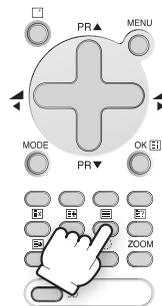
Note: The languages shown are subject to modification without prior notice.



Teletext

ENTERING/LEAVING TELETEXT MODE

- Select the desired program with teletext.
- Press the remote control TELETEXT () button (A22) to select teletext mode. The initial page (or the last page viewed if you have already used teletext in the present channel) appears.
- Teletext And Teletext (TAT) function (OPTION): if you want to watch two teletext pages on same screen, press the TELETEXT () button (A22) again. When entering into TAT mode, the active teletext page is on the left hand part of the screen, at the base of the screen a menu coloured page links is available. The passive page, on the right hand part, is locked to the active page, usually it display the next page in the list. Using the remote control RIGHT (A20) / LEFT (A7) buttons, you can change the active page.



For example, you can held the index page (press HOLD button (A9)); on one side of the screen and change the active page to the other side for navigation.

- Picture And Teletext (PAT) function (OPTION) : If you want to watch the TV program and use teletext at the same time, press the TELETEXT button (A22) again. Teletext will be displayed on the right hand part of the screen, and the whole TV picture will be compressed into left hand part of the screen.
- To return to TV mode, press again the TELETEXT () button (A22).

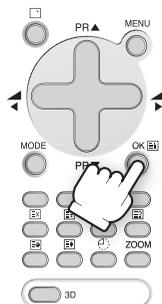
Page Selection

- You can directly enter the 3 figure page number: by using the remote control NUMBER 0...9 buttons (A3).
- You can sequentially select teletext pages by pressing the remote control PAGE UP (A6) / DOWN (A21) buttons.
- At the base of the screen a menu of coloured page links is available, showing either page numbers or a title with headings (eg Sport, News) in RED, GREEN, YELLOW or CYAN colour. These pages can be accessed by using the corresponding coloured buttons (A11, A12, A26, A25) on the remote control.

Once a request is made, the page number is shown in the extreme top left corner of the screen. If the requested page is not immediately available the rolling header will be active until the page arrives.

Useful Teletext Functions

INDEX () button (A18): Allows you to return directly to the initial teletext page.



SUBPAGE () button (A10):

- Press the SUBPAGE button (A10). In the extreme top left corner, instead of the page number, "S..." will be displayed. This is ready to accept the subpage number.
- Enter directly the subpage number you want with the remote control NUMBER 0..9 buttons (A3): for example to request the 2nd subpage, type 0002.
- After a few seconds the subpage number is replaced by the page number in the header. You can press again SUBPAGE button (A10), to display the subpage number.
- If the requested page is not immediately available the rolling header will be active until the page arrives.

Warning: If the subpage is not available (does not exist), then the header will roll continuously and no new page will be found.

Note: Teletext specification allows for subpage numbers 0000 to 3979 (the first figure is limited to the range 0..3, and the third figure 0..7).

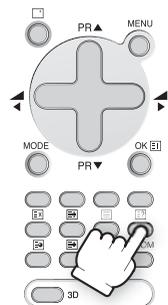
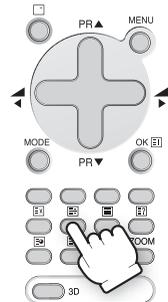
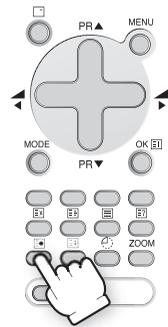
PAGE HOLD button () (A9):

Any teletext page or subpage can be held on the screen by pressing the PAGE HOLD button.

- The page number shown in the extreme top left corner instead of page number the HOLD icon is shown in green.
- Press the HOLD button again to cancel hold mode (the page number will return to white)

REVEAL () button (A24): Press this button to reveal, on certain pages, hidden information such as the answer to a quiz.

- Press the button again to hide the information.



Teletext Format Picture & Sound Control

Doubling character height

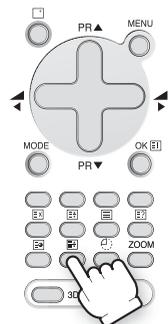
Repeatedly pressing the HEIGHT () button (A23) doubles the character height in the following order:

Upper half of the page (UP) → Lower half of the page (DOWN) → Return to normal height.

If the page is in UP or DOWN mode, then normal size is automatically set if:

- A new page request is made (e.g. CYAN, INDEX or PAGE UP/DOWN).
- CANCEL mode (A8) function is used.
- VOLUME menu is activated with the MENU button (A19).

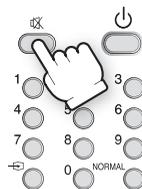
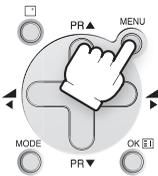
Note: The menu at the base of the screen is always visible



Volume and brightness control in teletext mode

VOLUME (and sound MUTE), BRIGHTNESS controls are all possible in teletext. The BRIGHTNESS control are dedicated to the teletext display.

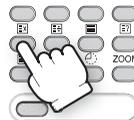
- Access the VOLUME control by pressing the MENU button (A19) in teletext mode. A bargraph will appear in the lower part of the screen (as in TV mode). If MUTE is active a mute icon is also shown.
- A second press on the MENU button (A19) will access the BRIGHTNESS control.
- The active bargraph will timeout after 3-4 seconds (as in TV mode VOLUME control) or by pressing on the MENU button (A19) a third time after brightness control
- Each control can be adjusted by using the remote control CURSOR RIGHT (A20) / LEFT (A7) buttons.
- Mute can always be activated by pressing the SOUND MUTE button (A2).
- Any change to the VOLUME level will cancel the SOUND MUTE.



Watching tv while page searching

The CANCEL function can be used to make the teletext page transparent, thus revealing the TV picture:

- To enter cancel mode, press the CANCEL () button (A8) while in teletext mode. The TV program will reappear on the screen, while only the teletext page number or the cancel icon remains at the top and left corner of the screen.
- You can enter a new page number in this mode only by using the remote control NUMBER 0...9 buttons (A3), or with the INDEX () button (A18).
- If a page has been requested, but has not yet arrived, cancel icon will be displayed until the page arrives. Once arrived the page number will be displayed.
- The teletext page can be made visible again by pressing the CANCEL () button (A8).
- It should be noted that the TV program cannot be changed while in cancel mode.
- The CANCEL function is not available in PAT and TAT mode.



Watching tv with teletext subtitles

If the actual teletext page is a news flash or subtitle page, then most of the TV picture becomes visible. In this situation the ZOOM format chosen in TV mode is reactivated, where possible.

This is particularly useful while watching a program with the teletext subtitles. Only formats which do not allow the full height of the TV picture to be seen are not possible in teletext mode, as these would not allow all teletext lines to be displayed. Therefore only the formats ZOOM 14:9 AND ZOOM 16:9 (available with wide screen TV models) cannot be preserved with teletext subtitles. In this situation the default format FULL SCREEN (equal to 16:9) will be used.

Wall/Arm Mounting

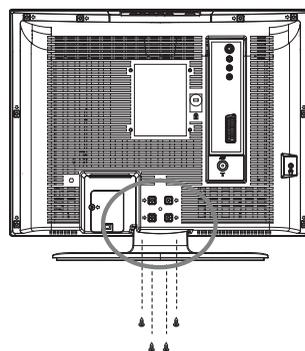
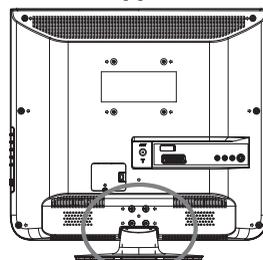
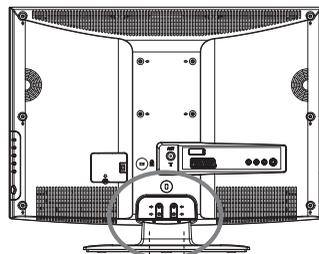
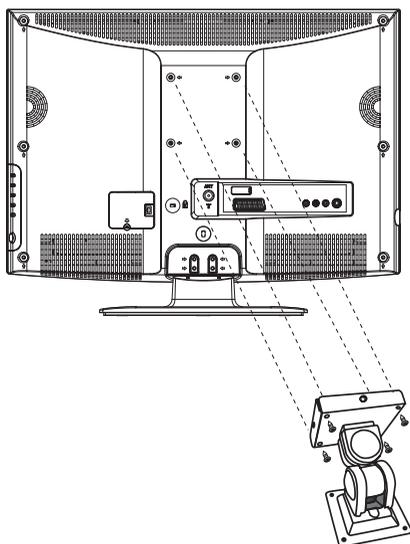
Attaching a Wall or Arm mounting device

This TV supports the VESA mounting standard and will accommodate various VESA mounting devices. To install any VESA mounting device, please follow the manufacturer's instructions.

1. Remove all cables connected to the TV.
2. Lay the LCD TV face-down on a flat surface with a blanket or other soft materials to protect the screen.
3. Remove the four screws attaching the stand. Remove stand from LCD TV.
4. Remove the four screws attaching the rear cover.
5. Now you are ready to install the VESA mounting device suited to your applications (see instructions below).
6. Connect all cables removed at step 1.

Installing VESA compliant mounting devices

1. Align the mounting interface pad (100mm x 100mm hole spacing) with the holes in the television's rear cover mounting pad.
2. Secure bracket with the four screws (4mmØ) that came with the VESA mounting device.



Troubleshooting

Please check the following items before calling for the repair services.

Problem	Check item	Reference page
TV set		
Control/System lock up	<ul style="list-style-type: none"> · The TV may have malfunctioned. · Switch your TV off and on again with the main button $\cup/$ on the TV set. 	16
Remote control does not work.	<ul style="list-style-type: none"> · Perform control/system lock up reset (as above) · Replace the batteries in the remote controller. · Make sure the Remote sensor window is not under strong light e.g. a fluorescent lamps. 	10
Local buttons do not work.	<ul style="list-style-type: none"> · Has the Child lock been switched on? 	25
No picture and no sound.	<ul style="list-style-type: none"> · Check that the TV set is switched on at the main ON/OFF switch. 	16
No picture.	<ul style="list-style-type: none"> · Make sure the brightness and contrast are not set to minimum. 	21
No colour	<ul style="list-style-type: none"> · Make sure the Colour is not set to minimum. · Check the System settings. 	21 22
Picture is too light or too dark.	<ul style="list-style-type: none"> · Adjust the Brightness, Contrast. 	21
The picture is improperly tinted.	<ul style="list-style-type: none"> · Check the Tint adjustment (NTSC signal) 	21
No sound.	<ul style="list-style-type: none"> · Check that the volume is not set to minimum. · Check sound is not muted. 	17 17
Aerial		
The picture is not sharp. The picture shakes.	<ul style="list-style-type: none"> · Reception may be weak. · The quality of the broadcast may also be poor. · Make sure the aerial is facing the correct direction. · Check that the outside aerial is not disconnected. 	
The picture is ghosted.	<ul style="list-style-type: none"> · Transmission aerial of amateur radios and cellular phones may cause interference. · Position the TV set as far away as possible from devices that may cause interference. 	
The picture is spotted(snow).	<ul style="list-style-type: none"> · There may be interference from automobiles, trains, high voltage lines, neon lights, etc. · There may be interference between the aerial cable and power cable. · Try positioning cables further apart. 	
Picture has lines and faded colours.	<ul style="list-style-type: none"> · Transmission aerial of amateur radios and cellular phones may cause interference. · Position the TV set as far away as possible from devices that may cause interference. 	

Specifications

MODEL NAME	DLP-20J1	DLP-20D7	DLP-20W2
PANEL	20" TFT LCD		
SCREEN SIZE	510.54mm(diagonal)		509.00mm(diagonal)
DISPLAY COLOUR	16.7M		16.2M
CONTRAST RATIO	700:1		600 : 1
PIXEL PITCH	0.6375(H) x 0.6375(V)		0.32475(H) x 0.32475(V)
ASPECT RATIO	4:3		16 : 9
POWER REQUIREMENT	AC 220 ~ 240V, 50Hz		
POWER CONSUMPTION	50W	45W	53W
SOUND OUTPUT	2.0W + 2.0W		
APPEARANCE(mm)	514(W) x 498(H) x 257.3(D)	608(W) x 456(H) x 215(D)	509(W) x 420.5(H) x 239(D)
WEIGHT	7.9Kg	8.35Kg	7.5Kg
RESOLUTION	640 x 480		1366 x 768
TERMINALS	AV IN : SCART, COMPOSITE VIDEO, S-VIDEO, AUDIO L/R HEADPHONE : 3.5mm STEREO MINI-JACK ANT. IN : COAXIAL-TYPE		
RECEPTION CHANNEL	CCIR + CATV + HYPER Channel VHF-L : NZ1 ~ S7 (42.25MHz ~ 147.25MHz) VHF-H : S8 ~ S36 (154.25MHz ~ 423.25MHz) UHF : S37 ~ E69 (431.25MHz ~ 855.25MHz)		

The specification shown above may be changed without prior notice for quality improvement (Weight and Dimensions shown are approximate).