Contents

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This publication is printed on recycled paper.

Getting started

Warnings and precautions

Ensure that your domestic mains supply voltage matches the voltage indicated on the identification label located at the back of the set.

The TV set's components are sensitive to heat. The maximum ambient temperature should not exceed 35° Celsius.

Do not cover the vents at the back of the TV set. Leave sufficient space around it to allow adequate ventilation.

Install the TV set away from any source of dust or heat (radiator, etc.). Do not expose it to direct sunlight.

Moisture in rooms where the set is installed should not exceed 85% humidity. If you have to use the TV set outdoors, do not expose it to rain or splashing water.

Moving the set from a cold place to a warm one can cause condensation on the screen (and on some inside components). Let the condensation evaporate before switching the TV set on again.

During thunderstorms, we recommend that you disconnect the set from the mains and aerial so that it is not affected by electrical or electromagnetic surges that could damage it. For this reason, keep the mains and aerial sockets accessible so they can be disconnected if needed.

Unplug the set immediately if you notice it giving off a smell of burning or smoke. You must never, under any circumstances, open the set yourself, as you risk an electric shock in doing so.

If you intend to be away for a long period, switch the set off at the on/off switch located on the rear panel.

Even when off, some components remain in contact with the mains electricity supply. To completely isolate the set you must remove the plug from the mains supply socket.

This product is fitted with a 3-pin grounded plug, which will only fit into a grounded power outlet. This is a safety feature. Do not alter the plug, as this would defeat the safety feature.

Avoid any intrusion of liquid or small metallic objects inside the set. If such an incident were to occur, immediately disconnect the TV set from the mains supply and refer servicing to qualified service personnel.

Use the screen saver when using a computer.

Switch the TV set to standby mode when you do not use it.

The top of the TV set is usually very hot due to the high temperature of exhaust air released through the ventilation openings. Do not place your hands or face close to these openings to avoid burns or personal injuries. Do not place any object close to the ventilation openings to avoid any damage to the object or to the TV set itself.

Make sure that all cables are disconnected before moving the TV set, to avoid damaging the cables and thus cause fire or electric shock danger.

Trademarks

VGA is a trademark of IBM Corporation.

SVGA is a registered trademark of the Video Electronics Standard Association.

All other trademarks are the properties of their respective owners.

Compliance with CE standards

This product complies with the following directives and standards of the European Union:

- 89/336/EEC of 03 May 1989 with subsequent modifications (directive 92/31/EEC of April 1992 and directive 93/68/EEC of 22 July 1993)

- 73/23/EEC of 19 February 1973 with subsequent modifications (directive 93/68/EEC of 22 July 1993)

- EN55013, EN55020, EN61000-3-2/-3 (ElectroMagnetic Compatibility)

- EN60065 (Safety Requirements).

Conformity with standards is certified by the appropriate marking on the product.

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Getting started

Installation

Install the TV set in a properly ventilated room.

Do not install this product on an unstable cart, stand or table.

Do not place it on a bed, sofa, rug, or other similar surfaces.

Do not install the TV set in an enclosed area unless proper ventilation is provided.

Do not rest objects on the power cord and avoid placing power cord near high traffic areas.

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

To reduce the risk of screen burning, do not display still images for extended periods of time. Examples of still images include still computer and video game images, logos, pictures, text and images displayed in 4:3 format.

When displaying tables, graphics, etc.:

- Decrease the contrast and brightness of the picture as much as possible.

- Display pictures presenting many colours and grading of colours (photographs).

- Adjust contrast to obtain the least noticeable transition between dark and light areas (white characters on a black background).

If the picture displayed is in any way abnormal, turn off the set using the main power switch located at the back and disconnect it from the electric outlet.

This TV set must be installed and used in compliance with this document. It should not be used for other purposes, including industrial purposes.

Screen burns are not covered by the warranty.

The plasma panel is a very high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. This does not affect the performance of your product.

Care and maintenance

Always disconnect the TV set from the mains supply before any cleaning operation. Clean the screen with a glass-cleaning product. Never use abrasive products.

Clean the front and cabinet using a soft cloth impregnated with a neutral detergent. Using solvents, abrasive or alcohol-based products could damage the set.

Regularly dust the air vents located at the back.

Batteries

Precautions on using batteries:

- Only use the battery types specified.

- Make sure you use the correct polarity.

- Do not mix new and used batteries.

- Do not use rechargeable batteries.

- Do not expose batteries to excessive heat, throw them on the fire, recharge them or try to open them, as this could cause them to leak or explode.

- Remove the batteries from the remote control if you are not using it for a long period of time (several weeks).

THOMSON is not liable if the product is not used in accordance with this manual.

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HELPLINE **THOMSON**

You can contact THOMSON by dialling: **0871 712 1312**
(for United Kingdom, £0.10/mn inc VAT)

www.thomson-europe.com

In our endeavour to improve the quality of our products we reserve the right to modify their features. The information in this manual is therefore likely to change and is not contractually binding.

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Connections and Set-up

Unpacking and installing

Warning: This operation requires two people.

1. Place the box upright with its underside on a solid base. The direction of the arrowheads on the long side of the box indicates the top of the box.

2. Remove the packaging tape from the opening edge and open the box's flap outwards. Remove the two top polystyrene packing corners and take the accessories box out of the packing.

3. Remove the TV set from the packing and place it on a stable, horizontal surface, capable of supporting the load.
Note: Before installing it, make sure that the TV set is switched off and that the mains cable and signal cable are unplugged.

Front panel buttons

If the batteries in the remote control are run down you can use the buttons on the TV set's front panel, under the light, which have the same functions as the corresponding buttons on the remote control. They can also be used to navigate through the menus with the following functions:

VOLUME -: ◄ button
VOLUME +: ► button
PR-: ▼ button
PR+: ▲ button
MENU: access to menus.

vol -   vol +   PR -   PR +   menu
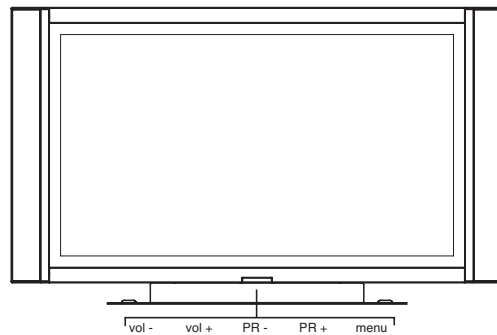
Before setting up your television set, make sure that the surface you want to put the set on can support its weight (see the list of specifications provided with the booklet).
Don't place the set on an unstable surface (e.g. moving shelf, very edge of a unit).

Hanging the TV set on the wall

Warning: This operation requires two people.

If you want to hang your TV set on the wall, proceed as follows:

1. Turn the TV set over (so that the screen is facing the floor) and place it on a flat, protected surface.

2. Unscrew the four fixing screws from the table stand and remove the stand.

3. Attach mounting brackets (not provided) to the wall.

4. Position the TV set so that the brackets fit into the holes provided for this purpose at the back of the appliance. Make sure that the TV set is securely fixed and cannot fall off.
*Note: Check that the wall can support the TV set's weight and make sure and use a type of screw that is suitable for the material which the wall is made of. If necessary, contact a qualified fitter.*

Holes for brackets
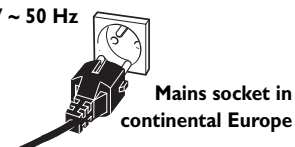

4
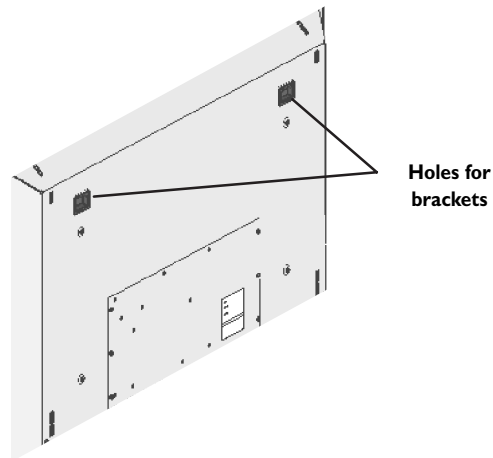
Connections and Set-up

Switching on

Follow the instructions on this page on how to switch on your TV set and the remote control before going on to the following pages that describe how to use the remote control and the channel set-up procedure.
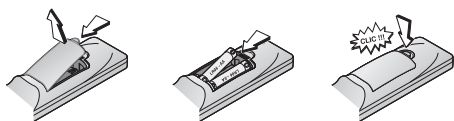
1. Insert two LR06 or AA batteries in the remote control.

**220 - 240 V ~ 50 Hz**

Mains socket in continental Europe

2. Connect the TV set to a mains socket.

Your TV set should only be connected to a 220 - 240 V ~ 50 Hz AC supply. It must not be connected to a DC supply. If the plug is detached from the cable, do not, under any circumstances, connect it to a mains socket, as there is a risk of electric shock.
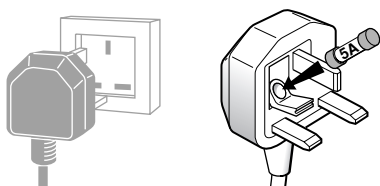
Equipment for the UK and Ireland is supplied with a mains cable fitted with a moulded plug.

This plug contains safety components and must not be replaced by one sold by general retailers. It is fitted with a fuse that protects your television. If your set has stopped working, the fuse may have blown. If it has, replace it with an identical ASTA or BSI certified (BS1362) 5-amp fuse.
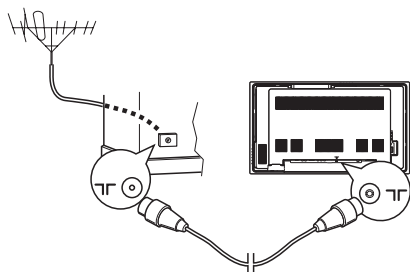
3. Connect the outside aerial or cable network to the antenna connector (labelled **ANTENNA**) on the rear panel of the TV set.

The aerial socket (75 Ohms - VHF / UHF / cable) can be used for connecting an external aerial or other equipment fitted with a modulator (video recorder, satellite receiver, etc.).

We recommend that you do not connect other equipment (video recorder, satellite receiver, etc.) to your TV set to begin with, so as not to complicate the set-up procedure with the additional steps involved. Connect them when you have finished setting up the channels by referring to page 16 of this manual.
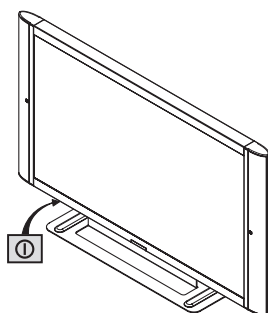
4. Turn the mains switch on the rear side of the set to position "**I**".

Please respect the environment and the relevant regulations. Before you dispose of batteries (or accumulators), ask your dealer whether they require special recycling and if he is able to take them back.
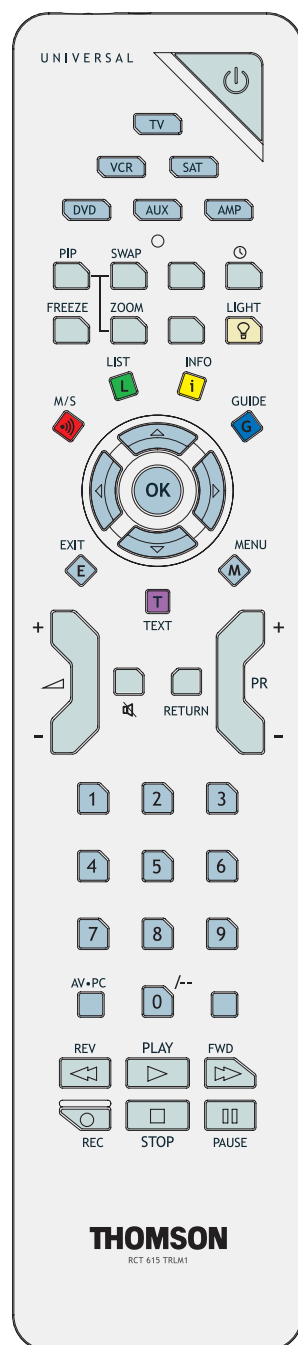
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Connections and Set-up

TV functions of the remote control

Most of your television's functions are available via the menus that appear on the screen. The remote control supplied with your set can be used to navigate through the menus and to configure all the general settings.

Navigating through menus

Press the **MENU** button to display the main menu. Select a menu option using the ⌃ ⌄ buttons, then press the ⌄ button to access the submenu. Return to a previous menu using the **MENU** or **RETURN** button or select ◄ and press ◄.

⏻	Standby.
TV	To access TV mode. Press this button to control the television. Quit standby.
VCR	To access VCR mode.
DVD	To access DVD mode.
SAT	To access SAT mode.
AUX	To access AUX mode.
AMP	To access AMP mode.
light	To provide information: - it lights up when you press a button, - it indicates the status when the remote control is being programmed, - if the batteries are run down, it flashes when you press a button.
PIP	To enable the different display modes.
SWAP	To swap the main picture with the PIP picture. To access the Mixed display function in Teletext mode.
⏱	To display current time.
FREEZE	To freeze the screen. To access the Stop function in Teletext mode.
ZOOM	To change format/zoom. To access the Zoom function in Teletext mode.
LIGHT	Remote control light.
M/S	(red button) To select a sound type.
LIST	(green button) List of programmes.
INFO	(yellow button) Status information.
GUIDE	(blue button) Inactive.
TEXT	(purple button) Teletext. The coloured buttons can also be used for operating Teletext.
⌃ ⌄	To select menu options.
◄ ►	To set functions, change values in menus.
OK	To access menus during initial set-up.
MENU	To access the main menu. To go back one level in menus.
EXIT	To exit the menu structure, Teletext mode and PIP mode.
◢ **+/-**	To control the volume.
⊠	To switch the sound off and back on again.
RETURN	To return to the previous channel/AV programme. To go back one level in menus. To access the Hidden answers function in Teletext mode.
PR+/-	To change channels.
0-9	To select a channel by its number. For two-digit channel numbers, press 0 to display "--", then enter the channel number. To enter numeric values.
AV·PC	To select an appliance connected to an AV or PC socket.

Using the remote control for other equipment

The remote control supplied with your television can be used to control other appliances using the programmable buttons **VCR**, **DVD**, **SAT**, **AMP** and **AUX**. For each button you can control the following appliances:

VCR: video recorder
DVD: DVD player
SAT: satellite receiver, cable network
AMP: hi-fi system, Home Cinema amplifier
AUX: decoder for terrestrial digital TV set and any other appliance. For instance, if you have two video recorders, you can program the **VCR** button to control one video recorder, and program the **AUX** button to control the other one.

> Note: The **TV** button is not programmable.

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Connections and Set-up

|	Video recorder	DVD player	Satellite receiver	Hi-fi system
	Press the **VCR** button	Press the **DVD** button	Press the **SAT** button	Press the **AMP** button
⏻	On/Standby	On/Standby	On/Standby	On/Standby
MENU	To display the main menu	To display the main menu	To display the main menu	
▲ ▼	Vertical scrolling in menus	Vertical scrolling in menus	Vertical scrolling in menus	
◀ ▶	Horizontal scrolling in menus	Horizontal scrolling in menus	Horizontal scrolling in menus	
OK	To confirm an action	To confirm an action	To confirm an action	
EXIT	To close a menu	To close a menu	To close a menu	
0-9	To directly access channels or enter numeric values	To enter numeric values or select options in menus	To directly access channels or enter numeric values	To select a station using its number
PR+/PR-	To change channels	To change chapters	To change channels	To change stations
AV	To select av input	To select av input		
REV	Rewind	Rewind		
PLAY	Play	Play		
FWD	Fast forward	Fast forward		
STOP	Stop	Stop		
PAUSE	Pause picture	Pause picture		
REC	Record			
🔇				To switch the sound off and back on again
◁ **+/-**				To set the volume level

Programming the remote control

Automatic code search

This method can be used to automatically find the most appropriate code for your appliance.

1. Switch on the appliance you wish to use the remote control with.

2. Press the relevant button for this appliance on the remote control, and while holding this button down, press the ⏻ standby button until the light or the appliance buttons of the remote control come on. Release both buttons.

3. Point the remote control at the appliance and press **PLAY**. Wait until the light stops flashing. If the appliance has not gone into standby mode, press the **PLAY** button again to continue the search for the next set of codes. Repeat this operation until the appliance goes into standby mode. There are around 20 sets of codes.

4. When the appliance goes into standby mode, switch it on again without using the remote control. Press the **REV** button as many times as is required to return the appliance to standby mode.

5. Press the **STOP** button and hold it down until the light or the appliance buttons of the remote control go off.

Note: You can cancel the programming operation at any time by pressing the **EXIT** *button.*

Manual programming

This method involves carrying out a manual search for the codes to be used for controlling your other appliances.

1. Switch on the appliance you wish to use the remote control with.

2. Press the relevant button for this appliance on the remote control, and while holding this button down, enter one of the codes relevant to your make of appliance (there is a list of codes at the end of this manual). If the light or the appliance buttons of the remote control flash you have entered the wrong code or it is not possible to program the remote control.

3. Point the remote control at the appliance and press the relevant button (**VCR**, **DVD**, etc). Press the ⏻ standby button. If the appliance does not go into standby mode, try another code.

Depending on the year of manufacture and the type of appliance, some functions may not be available. Certain codes may cover more functions than others. Test the functions you can control and, if appropriate, try other codes.

Note here the code(s) which work best.

VCR					AUX			
DVD					AMP			
SAT								

When you change the remote control's batteries, remember to reprogram it.

Programming the volume control function

If you have programmed the TV remote control to use with other appliances and these are connected to an amplifier you can also programme the remote control to adjust the volume when you are using one of these appliances. The example below describes the procedure for programming a DVD player.

1. Programme the **AMP** button on the remote control to use with the amplifier (refer to page 6).

2. Move the remote control away from the appliances. Press the ◁ **-** button and while holding it down, press the relevant mode button (**DVD**, in this example), then the **AMP** button. Release the ◁ **-** button.

3. Switch on the amplifier, then the DVD player.

4. Set the remote control to **DVD**, play a disc and adjust the volume using the ◁ **+/-** buttons.

Repeat this operation for the other appliances.

To cancel the programmed function for any of the appliances, press the ◁ **-** button, while holding it down and enter the code 000 using the numeric buttons.

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Channel Set-up

EN

English
Français
Deutsch
Italiano
Español
Nederlands
Svenska
Norsk
Suomi
Dansk

Select your language and press OK.

Return
United Kingdom
France
Germany
Italy
Spain
Austria
Switzerland
Belgium
Netherlands
Luxembourg
Denmark
Sweden
Finland
Norway
Eire
Turkey
Other

Select your country and press OK.

Initial set-up

Initial set-up involves searching for and storing all the channels you can receive.
Make sure that the television is switched on and follow the steps in turn specified on this page.
If you receive your channels via satellite only, you do not have to perform the automatic channel search.
The first time you switch the television on, the language selection menu appears.

1. Switch on the TV set via the **TV** button on your remote control.

2. Select your language using the ⋀ ⋁ buttons and confirm by pressing **OK**.

3. A list of countries appears. Select the relevant country using the ⋀ ⋁ buttons. Press **OK** to confirm.
Note: This is the country you are in, or the country whose channels you want to receive if you live near its borders.

4. The table opposite appears and the automatic channel search begins.
Notes:
- The automatic search can take up to 10 minutes. The screen displayed will inform you of the search's progress.
- If you want to interrupt the search, press the red button on the remote control. The channels already stored will be lost.
- The automatic search deletes all the channels stored previously.

5. The TV set arranges the channels in a preset order.
- You can change this order or delete any duplicates using the table which appears.
Note: The table disappears after a minute if there is no input from you. To display it again, refer to the sections below.

- If you do not want to rearrange the channels, press the **MENU** button to close the screen.
- If you want, later on, to sort, name or rename channels, or delete duplicates, refer to the relevant section below.

Sorting TV channels

1. Display the main menu by pressing the **MENU** button. Select the option **Inputs / PIP**, then **Main input settings** and then **Sort**. The table opposite appears.

2. You can now sort the TV channels using the coloured buttons on the remote control.

Deleting TV channels

1. Display the main menu by pressing the **MENU** button. Select the option **Inputs / PIP**, then **Main input settings** and then **Delete**. The table opposite appears.

2. You can now delete TV channels using the coloured buttons on the remote control.

Changing a channel name

If the TV set can detect the channel name from the TV signal, the detected name is stored under the set channel number. If the channel name is not detected, the channel number appears as "-----".

Proceed as follows to change the channel name:

1. Display the main menu by pressing the **MENU** button. Select the option **Inputs / PIP**, then **Main input settings**, then **Manual Search** and finally **Name**.

2. Press the ➤ button to select the first character.

3. Using the ⋀ ⋁ buttons you can scroll through the characters set until you find the character you want.

4. Use the ➤ button to select the next character.

5. Repeat the previous 3 steps until you have entered the name. A maximum of 5 characters is possible.

Auto Search	▶
Manual search	▶
Sort	▶
Delete	▶
◀	

Programme:	01
TV Standard:	PAL BG
Type:	Channel
Channel Entry:	12
Frequency:	062.25 MHz
Name:	BBC1
Auto	▶
Option:	Normal
Decoder:	SCART2
◀	

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Channel Set-up

Automatic channel search

Auto Search ►
Manual Search ►
Sort ►
Delete ►
◄

TV Standard: PAL BG
Search Form: All Programmes
Start Search: ►
Programme Start Point: 01
Country: United Kingdom
◄

1. Display the main menu by pressing the **MENU** button. Select the option **Inputs / PIP**, then **Main input settings** and then **Auto Search**. The corresponding menu appears.

2. Select under **TV Standard** the valid standard for your country. You have the following standards to choose from: **SECAM L** or **SECAM L'** for France, **SECAM L** for Luxembourg, **PAL DK** or **SECAM DK** for Eastern Europe, the Middle East and Asia, **PAL I** for the UK and Ireland, **PAL BG** for Western Europe, Australia and New Zealand.
*Note: Select the **Auto** setting to start the automatic channel search based on all the TV standards.*

3. Under **Search Form** select **All Programmes** to re-install all the channels or **New Programmes** to search for channels not yet installed.

4. Under **Programme Start Point**, specify the channel number from which you want the numbering of the channels found to start.

5. Make sure that your country is selected under the **Country** option. If not, select it.

6. Select **Start Search** and press the ➤ button. The automatic channel search starts.

7. You can cancel the search by pressing the **EXIT** button.

Manual channel set-up

Follow the procedure given on this page if you find that some channels have not been stored during the initial set-up. This can happen if you are setting up cable network channels. Setting up channels manually requires every setting for a particular channel to be entered, one at a time.

Auto Search ►
Manual search ►
Sort ►
Delete ►
◄

Programme: 01
TV Standard: PAL BG
Type: Channel
Channel Entry: 12
Frequency: 062.25 MHz
Name: BBC1
Auto   ►
Option: Normal
Decoder: SCART2
◄

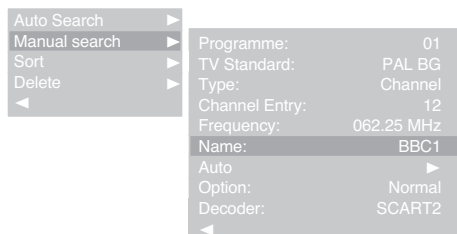**1.** Display the main menu by pressing the **MENU** button. Select the option **Inputs / PIP**, then **Main input settings** and then **Manual Search**.

2. Under the option **Programme** enter a channel number that is not yet being used.

3. Select under **TV Standard** the valid standard for your country. You have the following standards to choose from: **SECAM L** or **SECAM L'** for France, **SECAM L** for Luxembourg, **PAL DK** or **SECAM DK** for Eastern Europe, the Middle East and Asia, **PAL I** for the UK and Ireland, **PAL BG** for Western Europe, Australia and New Zealand.

4. a. Select **Channel Entry** and enter the number of the reception channel of the channel you are searching for using the numeric buttons on the remote control, or

b. Select **Frequency** and enter directly the frequency of the TV channel you are searching for using the numeric buttons on the remote control.
If the picture quality is not ideal, increase or reduce the frequency entered in small increments. You do this by pressing the ➤ button. The first number starts flashing. Use the ◄ ➤ buttons to select the number to be modified, and then the ▲ ▼ buttons to scroll through the numbers.

5. If the name of the channel does not appear under **Name**, select **Auto** and press the ➤ button to automatically search for the channel's name. If this information is not available you need to enter it manually.
You do this by selecting **Name** and following the procedure described in the section "Changing a channel name".

6. If the channel is encoded and you want to connect a decoder to one of the AV sockets, under **Option**, select the option (**Decoder A** or **Decoder B**) which allows you to obtain decoded sound. If you do not want to use a decoder, select **Normal**.
*Note: If a Canal+ decoder is being used, select **Decoder B**.*

7. Under **Decoder**, select the AV socket (**SCART1** or **SCART2**) which the decoder is connected to.
*Note: If a Canal+ decoder is being used, select **SCART1**.*

Repeat this procedure to find other channels.

EN

General Operation

EN
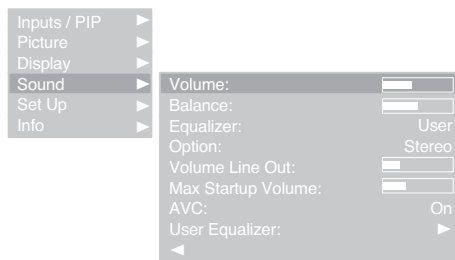
Switching the TV set on and off

● To switch the TV set on, set the main switch at the back to position "I". The light on the front panel is red. Then press the **TV** button, the **PR+/PR-** buttons or one of the numeric buttons on the remote control. The light turns green and the TV set comes on.

Note: It takes a few seconds for the TV set to come on.

● To put the TV set into standby mode, press the ⏻ button on the remote control The light on the front panel turns red.

● To switch the TV set off, set the main switch at the back to position "**0**".

*Note: The TV set automatically goes into standby mode after three minutes if it does not receive any signal. To switch it back on again, press the **TV** button, the **PR+/PR-** buttons or one of the numeric buttons on the remote control.*

Volume

Inputs / PIP ►
Picture ►
Display ►
Sound ►
Set Up ►
Info ►

Volume:
Balance:
Equalizer: User
Option: Stereo
Volume Line Out:
Max Startup Volume:
AVC: On
User Equalizer: ►
◄

● Volume control:
- use the ◿ **+/-** buttons on the front of the TV set or press the relevant buttons on the remote control to increase or decrease the volume; or
- select **Sound** from the main menu, then **Volume**. You can also use this menu to adjust the switch-on volume.

● Sound mute: Press the ◁ button on the remote control. The sound is switched off. The sound is switched on again, if you press the ◁ button or the ◿ **+/-** buttons on the remote control.

Displaying status information

In TV mode, press the yellow button (**INFO**) on the remote control to display the number and name of the channel you are watching, the type of sound, the zoom or format.

When you switch on the television or change channels, the number and name of the channel are displayed.

*Note: You can disable this information from being displayed using the **Display Source Info** function from the **Set Up** menu (see page 13).*

Accessing channels

● Using the numeric buttons:
- for channels 1 to 9, press the corresponding button;
- for channels 10 to 99, press the 0 button to display "--", then enter the two digits.

● Using the **PR+/PR-** buttons: scroll through the channels. AV programmes are not included in the cycle unless you use the buttons on the front of the TV set.

● Using the list of programmes: refer to page 11.

To access the channel or AV programme previously being watched, press the **RETURN** button

Accessing AV programmes

Press the **AV·PC** button to display the last selected audio-visual programme and scan through the other audio-visual programmes.

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General Operation

Inputs / PIP ►	
Picture ►	
Display ►	Auto Zoom: Off
Sound ►	Zoom: Userzoom
Set Up ►	User Zoom:
Info ►	Color temperature: Ideal
	Picture Contrast: Ideal
	Freeze Picture: ►
	Screen saver ►
	◄
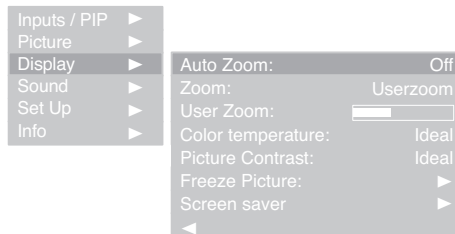
Picture format

In TV mode you have the option to change the display format and zoom in and out on a picture. Display the main menu by pressing the **MENU** button. Select **Display**, then **Zoom**.

Auto Zoom: when this function is enabled, it detects the picture's format and automatically applies **16/9 format** or **Zoom 16/9** format.

Under **Zoom** you can select one of the following formats or zooms:

4/3 format: centred picture in 4:3 format

Zoom 14/9: centred image in 14:9 letterbox format

Zoom 14/9 ▲: picture in 14:9 letterbox format with subtitles

Zoom 16/9: centred picture in 16:9 letterbox format

Zoom 16/9 ▲: picture in 16:9 letterbox format with subtitles

Cinerama: picture in widescreen 4:3 format

User Zoom: Select **Userzoom** under the **Zoom** option to display **User Zoom** as an option in the menu. You can use this option to display a customised picture format ranging from 40 to 160% of the picture's original size, in increments of 6%. Use the ➤ button to set the value.

16/9 format: picture in widescreen 16:9 format.

To toggle between the formats, press the **ZOOM** button repeatedly.
> Note: To prevent screen burnout, you should try not to use for prolonged periods of time formats which do not fill the entire screen.

List of programmes

To display the list of channels, press the **LIST** (green) button on the remote control. If you want to watch another channel, select it from the table using the ▲ ▼ buttons or use the **PR+/PR-** buttons. The selected channel is shown.

Press **MENU** or **EXIT** to close the menu.

Freezing a picture

To freeze the screen, you can:
- press the **FREEZE** button on the remote control, or
- display the main menu by pressing the **MENU** button, select **Display**, then **Freeze Picture**.

Press the **FREEZE** button again to cancel.
> Note: To prevent screen burnout, this function is automatically disabled after a minute.

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Advanced Functions

Picture settings

You can use the picture setting menus to achieve the best picture settings, according to your taste and the ambient lighting.
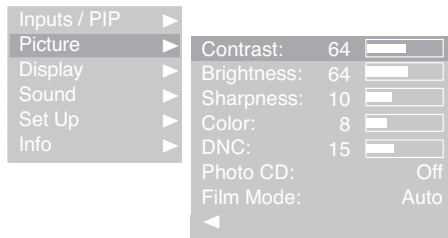
Picture menu functions

Display the main menu by pressing the **MENU** button, then select the **Picture** option.

Contrast, **Brightness**, **Sharpness**, **Color**: adjust these according as required using the ◄ ► buttons.

DNC (Dynamic Noise Control): this improves picture quality when reception is difficult.

Photo CD: this can be used to automatically provide the optimum quality for still pictures (photographs on a photo CD, for instance). It is disabled by default. Select the option **On** to enable it.

Film Mode (AV sources only): this function detects that the programme being broadcast is a film and enhances picture quality. It is disabled by default. Select the option **Auto** to enable it.

Display menu functions

Display the main menu by pressing the **MENU** button, then select the **Display** option.

Color temperature: you can select one of the three default settings (**Warm**, **Ideal**, **Cold**) or create a customised setting. You do this by selecting **USER** under **Color temperature**, then select **User Color Temp**. and press the ➤ button to apply the setting.

Note: When you increase the proportion of red the picture seems "warmer". When you increase the proportion of blue the picture seems "colder".

Picture Contrast: you can adjust this as required using the ◄ ► buttons.

Freeze Picture: press the ➤ button to freeze the screen. If the PIP option is enabled BOTH the main picture and PIP are frozen.

*Note: You can also use the **FREEZE** button.*

Screen saver: press the ➤ button, then select an option and press the ➤ button to enable it:
- **White**: this can be used to eliminate any recent, slight occurrences of screen burnout.
- **Inverted**: this can be used to restore the screen in the event of major burnout.
Press the **MENU** button to cancel this.
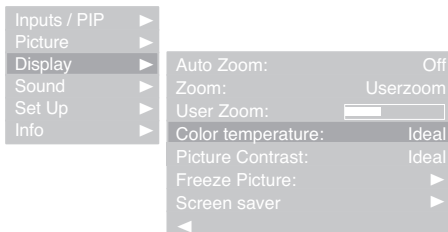
Sound settings

Display the main menu by pressing the **MENU** button, then select the **Sound** option.

Volume, **Balance**, **Volume Line Out**, **Max. Startup Volume**: adjust these according as required using the ◄ ► buttons.

Equalizer: select one of the preset options or the **User** option to define your own settings. In this case, the **User Equalizer** option appears. Select it and press the ➤ button to display the five frequency bands. Adjust these according as required using the ◄ ► buttons.

Option: using the ➤ button, select a sound type.

*Note: You can also use the red (**M/S**) button.*

AVC: select **On** if you want to keep the same sound level for all channels.

Menu panels (left column):

Inputs / PIP ►
Picture ►
Display ►
Sound ►
Set Up ►
Info ►

Contrast: 64
Brightness: 64
Sharpness: 10
Color: 8
DNC: 15
Photo CD: Off
Film Mode: Auto
◄

Inputs / PIP ►
Picture ►
Display ►
Sound ►
Set Up ►
Info ►

Auto Zoom: Off
Zoom: Userzoom
User Zoom:
Color temperature: Ideal
Picture Contrast: Ideal
Freeze Picture: ►
Screen saver: ►
◄

Inputs / PIP ►
Picture ►
Display ►
Sound ►
Set Up ►
Info ►

Volume:
Balance:
Equalizer: User
Option: Stereo
Volume Line Out:
Max Startup Volume:
AVC: On
User Equalizer: ►
◄

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Advanced Functions

Inputs / PIP ►
Picture ►
Display ►
Sound ►
Set Up ►
Info ►

Main input:	TUNER
Main input settings	►
PIP Mode:	PIP
Secondary input:	SCART1
PIP Size:	
PIP Horiz.Pos.:	
PIP Vert.Pos.:	
Quick swap	►
◄	

Inputs / PIP ►
Picture ►
Display ►
Sound ►
Set Up ►
Info ►

Main input:	TUNER
Main input settings	►
PIP Mode:	Split Screen
Secondary input:	SCART1
Quick swap	►
◄	

Inputs / PIP ►
Picture ►
Display ►
Sound ►
Set Up ►
Info ►

Display Source Info:	On
Language:	English
OSD Set Up:	►
Pwr Down/Stand-By	►
Reset to factory defaults	►
Sleep Timer:	Off
◄	

Picture in picture (PIP)

The PIP function offers the possibility of viewing two image signals at the same time.

Display the main menu by pressing the **MENU** button, and then select the **Inputs / PIP** option.

Under **Main input**, select the input for the main picture. This can be a television channel (**TUNER** option) or a device attached to your TV set.

Under **PIP Mode**, select the PIP display mode:
- **Main**: PIP function disabled
- **PIP**: the PIP programme appears in a frame in a corner of the screen
- **Split screen**: the screen is split in two vertically and the PIP programme appears on the right.

As soon as you select the PIP option, the related options appear.

Secondary input: select the source of the PIP.
Note: If no signal is received at this input, the frame remains dark.

PIP Size: set the frame size.

PIP Horiz.Pos., **PIP Vert.Pos.**: set the horizontal and vertical frame position.
Note: Any change in size and position becomes visible immediately.

Quick swap: press the ➤ button to toggle between the main picture and PIP picture.
*Note: You can also press the **SWAP** button to toggle between main picture and PIP picture.*

Use the **PIP** button on the remote control to enable the different display modes in turn.

Customising your television

You can set preferences for some features. These preferences remain in force as long as you do not change them.

Display the main menu by pressing the **MENU** button, and then select the **Set Up** option.

Display Source Info: select **Off** to disable the option for displaying status information when you press the yellow (**INFO**) button, switch the TV set on or change channel (see page 10). This function is enabled by default.

Language: use the ◄ ➤ buttons to select from the list the language you want the menus to be displayed in.

OSD Set Up: this provides access to the following functions:
- **Time Out**: this can be used to set how long the menus are displayed for
Options: **Off**, **5s**, **10s** and **15s**.
- **Transparency**: this can be used to display the menus against an opaque or transparent background. Options: **Off** and **On**.

Pwr Down/Stand-By: this function applies to PC mode only. When it is enabled, the device automatically goes into standby mode if no signal is received and restarts when a signal is received again. Press the ➤ button to access the option **Reaction on PC syncs**, which is enabled by default.

Reset to factory defaults: to restore all the settings to the original default settings. Press the ➤ button to access the option **Yes, delete my settings**. Press the ➤ button again to confirm.

Sleep timer: you can set the TV set so that it automatically goes into stand-by mode after a certain amount of time. Select one of the preset times (**30 minutes**, **60 minutes** or **90 minutes**). Set the time to **Off** to disable the function.

Info Menu

Display the main menu by pressing the **MENU** button, then select **Info**. The screen appears, indicating the TV set's internal temperature and providing technical information about your appliance. The content of this screen cannot be changed.

Advanced Functions

EN
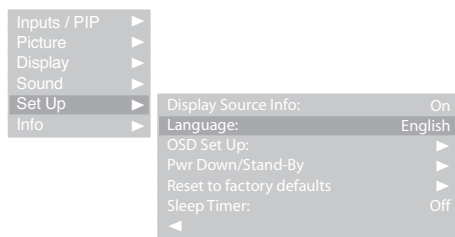
Teletext

The Teletext service is available in many countries under a variety of names (TOP Text, Fastext, FLOF text, Videotext). It is provided as a free service by television broadcasters. This service provides a real wealth of information, available at any time, on weather, sports results, news, games, etc. The information is presented in pages or organised in topics specified in colour on the screen and you can access this information by simply pressing the buttons of the relevant colour on the remote control.

1. Select a television channel with Teletext.

2. Press the **TEXT** button on the remote control to display Teletext. To display a page, enter its 3-digit number.

Note: The red, green, yellow and blue buttons on the remote control have different functions depending on the type of Teletext. They are displayed at the bottom of the Teletext screen.

If the current page includes subpages, the page number is displayed in green. In this mode, pressing the ◄ ► buttons will allow you to step through all the available subpages.

Stop

Some information is spread over several subpages which will be displayed one after the other. To stop subpage scrolling, press the **FREEZE** button. Press **FREEZE** to allow the information to move again.

Hidden answers

To reveal a hidden answer (for example, in games), press **RETURN**. Press **RETURN** once more to hide the answer again.

Zoom

Press **ZOOM** once to zoom in on the top part of the screen, twice to zoom in on the bottom part of the screen and three times to return to normal display.

Mixed display

Press the **SWAP** button to display Teletext against a transparent background. Press the **TEXT** button to display Teletext in the right half of the screen.

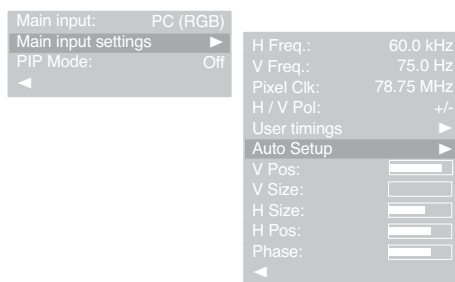Press the **EXIT** button to close Teletext.

Advanced Functions

PC Mode

1. Switch off the TV set and PC.

2. Connect the PC to the TV set using a video cable (DVI socket on the TV set and a VGA or DVI socket on the PC).

3. Switch the TV set and PC on again. Display the main menu by pressing the **MENU** button, then select **Inputs / PIP**, then **Main input**. Select the appropriate signal source: **PC (RGB)** (for analogue signals) or **PC (DVI)** (for digital signals). You can also press the **AV** button as many times as required to select the desired input.

Settings

Display the main menu by pressing the **MENU** button, select **Inputs / PIP**, then **Main input settings**. The first four options in the **Main input settings** menu are for information purposes only.
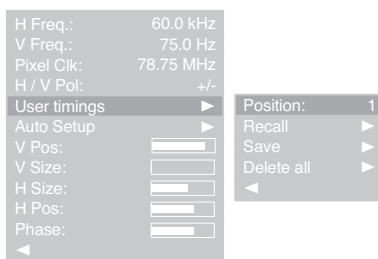
Auto Setup

Main input:	PC (RGB)
Main input settings	▶
PIP Mode:	Off
◀	

H Freq.:	60.0 kHz
V Freq.:	75.0 Hz
Pixel Clk:	78.75 MHz
H / V Pol:	+/-
User timings	▶
Auto Setup	▶
V Pos:	
V Size:	
H Size:	
H Pos:	
Phase:	
◀	

When an analogue video format (RGB) is used for the first time, the TV set carries out an automatic setup: the picture moves back and forth slightly, looking for the best position and picture.

Note: Some computer formats require the picture's position (horizontal/vertical) and size to be set manually. The result from auto setup depends a great deal on the picture displayed.

To carry out an automatic setup manually, display the main menu by pressing the **MENU** button, select **Inputs / PIP**, **Main input settings**, then **Auto Setup**.

Setting user formats

| H Freq.:	60.0 kHz		Position:	1
V Freq.:	75.0 Hz		Recall	▶
Pixel Clk:	78.75 MHz		Save	▶
H / V Pol:	+/-		Delete all	▶
User timings	▶		◀	
Auto Setup	▶			
V Pos:				
V Size:				
H Size:				
H Pos:				
Phase:				
◀				

You can store frequently used formats as user formats. The TV set will detect them and display them immediately in the correct manner, without running the Auto setup function.

1. Display the main menu by pressing the **MENU** button, select **Inputs / PIP**, **Main input settings**, then **User timings**.

2. You can then, for instance, save the format currently being used in position 1 (8 positions are possible) by selecting **Save**.
The **Recall** option allows you to select a user format that has been saved and with **Delete all** you can delete all stored user formats.

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Other Information
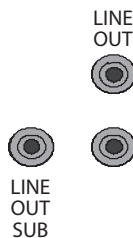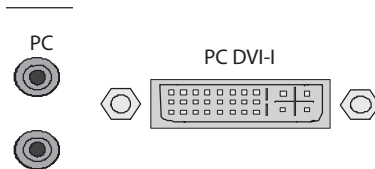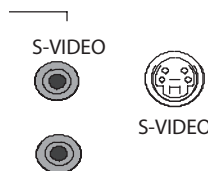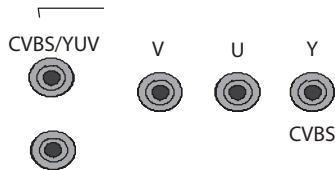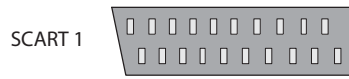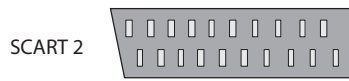
Sockets

SCART 1 and SCART 2 sockets (input-output)

SCART 2

SCART 1

EN

These can be used to connect a video recorder, camcorder, decoder, satellite receiver, DVD player or video game console.
The SCART 1 socket can also be used for connecting an appliance supplying an RGB signal (DVD player, video recorder, etc.).

*Note: If you connect the decoder to the TV set using a SCART cable, select **Inputs / PIP** from the main menu. Under **Main input**, select the AV socket (**SCART1** or **SCART2**) which the decoder is connected to. Select **Main input settings**. Under **TV SCART**, select **Not used**.*

CVBS/YUV   V   U   Y

CVBS

Video component (YUV) and LINE IN CVBS/YUV L/R audio sockets (input)

To connect a DVD player or another video source equipped with a YUV output.

S-VIDEO

S-VIDEO

S-VIDEO and LINE IN S-VIDEO L/R audio sockets (input)

These can be mainly used to connect camcorders (S-VHS or Hi 8 format).

PC   PC DVI-I

PC DVI-1 video and LINE IN PC audio sockets (input)

They can be used to connect a PC with a compatible video card, certain DVD players or a high-definition compatible digital satellite decoder. The formats supported are 480i, 480p, 576p, 720p and 1080i.

Notes:
- On older PC graphic cards it is possible that pin 9 is barred. Should this be the case, please contact the service hotline.
- The DVI socket is compatible with HDCP format.

LINE
OUT

LINE
OUT
SUB

Connecting active speakers

The audio LINE OUT sockets at the back of the television can be used to connect active speakers (with a built-in amplifier) replacing the television's built-in speakers.

Left and right speakers: connect the left speaker to the LINE OUT L socket and the right speaker to the LINE OUT R socket.

Subwoofer: connect the subwoofer to the LINE OUT SUB socket.

Connecting an amplifier

You can connect an amplifier and two speakers to replace your television's side speakers.

Connect your television's left L and right R LINE OUT sockets to the amplifier's L and R inputs.

Connecting a video recorder

To obtain optimum picture quality, use a SCART cable. However, you can also connect a video recorder to the television using the aerial socket.

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Other Information

Troubleshooting

The table below provides a list of the possible problems that can occur and the solutions. Please refer to this table before contacting the after-sales department.

If you are unable to resolve the problem using the instructions provided below, set the main switch to "0" and unplug the power cable from the mains socket. Then contact the after-sales department.

Never attempt to remove the TV set's cover or repair it yourself.

FAULT	POSSIBLE CAUSE	POSSIBLE SOLUTION
No picture and no sound, although the mains plug is inserted and the unit is switched on.	● Mains switch in position "0" (OFF). ● Display's mains plug is not inserted in the socket. ● Defective mains cable.	● Set mains switch to position "I". ● Insert the mains cable plug into the socket. ● Call the service hotline.
Screen is dark.	● Contrast setting too low.	● Adjust the brightness and/or contrast correctly (see **Picture** menu).
Blue screen.	● No input signal, wrong input selected.	● Check the cable and connection; assign correct input to source.
Weak or excessive colours.	● Colour not set correctly. ● Connection cable not correctly inserted.	● Adjust the colour in the **Picture** menu. ● Connect the cable correctly.
The picture is cut off or off centre.	● Picture position not set correctly.	● Correct the picture position. Use the auto setup function (PC mode).
The picture is too large or too small.	● Picture format set wrongly.	● Press **ZOOM** button repeatedly until the picture is displayed as full screen.
The remote control is not working.	● The batteries are flat. ● There is an obstruction between the remote control and the sensor. ● The remote control is located outside of its operating range.	● Insert new batteries. ● Remove the obstruction between the remote control and the sensor. ● Use the remote control within the specified range.
The displayed picture is too dark.	● The picture quality is not set correctly.	● Adjust the picture brightness and contrast using the **Picture** menu.
The picture is displayed, but there is no sound.	● The sound is muted. ● Volume set to minimum.	● Press the ⊠ button on the remote control. ● Increase the volume.
Certain letters do not display correctly (PC mode).		● Set the phase position via the option **Main input settings** in the **Inputs / PIP** menu. ● Check the picture width setting. ● Run an Auto Setup.
Horizontal stripes with TV or video signals.	● Signal source has been set up before the TV set. ● Video cable screening is inadequate.	● Always place the signal sources at the side of or behind the TV set. ● Use only a high-grade signal cable with a high screening attenuation.
Some pixels are not active.		● Plasma screens are based on state-of-the-art technology. It is possible that some inactive pixels occasionally appear on screen in the form of tiny blue, green or red fixed dots. This is not an operating fault.

Notes:
- To restore all settings to their original status, select the option **Reset to factory defaults** *in the* **Set Up** *menu.*
- If the TV set is operated without sufficient ventilation, the internal temperature can rise excessively. If the ambient or internal temperature rises above a certain value, first of all, the warning window on the left-hand side of the screen will appear. As a result, the TV set may automatically switch to standby mode. Make sure sufficient ventilation is provided!

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Other Information

Technical specifications

DISPLAY

Size / diagonal	106 cm, 16:9 format
Displayable picture size	920 mm (horizontal) x 518 mm (vertical)
Resolution	852 x 480 pixels
Colour display	16.7 million colours
Viewing angle	160° typical
Contrast ratio	3000:1 typical

VIDEO STANDARDS

Video	PAL / SECAM / NTSC
TV tuner	PAL (BG, I, DK, L) / SECAM (L/L'), 47 - 861 MHz (VHF, UHF, Hyperband)
PALplus, Cinescope	Automatic format detection (full screen)
Formats	4:3, 16:9, Cinerama, full screen, user zoom (40%-160%)

PC FREQUENCY RANGE

Horizontal frequency	30 - 80 kHz
Vertical frequency	50 - 90 Hz
Clock frequency	max. 140 MHz
Resolutions	DOS: 640 x 480 - 60 Hz, 720 x 400 - 70 Hz, VGA: 640 x 480, SVGA: 800 x 600; WVGA: 848 x 480 50 Hz - 90 Hz XGA: 1024 x 768 50 Hz - 90 Hz WXGA: 1280 x 768 - 60 Hz SXGA: 1280 x 1024 50 Hz - 75 Hz
Recommended resolution	848 x 480 - 60 Hz
Formats	1:1, full screen, full format, zoom, user zoom (40%-160%)

INPUTS / CONNECTIONS / SYNCHRONISATION

PC / Video input port	RGB analogue and automatic sync detection
Video connections	TV tuner: IEC, 75 ohms input resistance SCART1: RGB, CVBS input, CVBS output SCART2: CVBS input, CVBS output SCART1 / SCART2: audio input/output CVBS: RCA Y/C: MiniDIN (HOSIDEN) YUV (CVBS): 3 x RCA DVI-I
PC analogue/digital connection	DVI-I
Audio sockets	Built-in loudspeakers: 2 x 2 broadband - 2 x 7 W sinusoidal OUT LINE SUB: 1 x active subwoofer Stereo input: 3 x RCA L/R 1Vrms (YUV (CVBS), YC, PC), 2 x SCART 1 Vrms Stereo output: 1 x RCA (LINE OUT)
Synchronisation	Sync on green, composite sync with automatic detection, Separate H and V sync

OPERATING CONDITIONS

Temperature	+5 °C - +35 °C (in operation), -20 °C - +60 °C (storage)
Air humidity	20 % - 85 % (non-condensing) - 40 °C
Elevation	max. 2,000 m

DATA MAINS CONNECTION

Voltage supply	240 V AC ± 10 %
Mains frequency	50 / 60 Hz ± 6 %
Power consumption	250 W (EN61000-3-2), 6 W in standby mode

DIMENSIONS AND WEIGHT

TV set with stand H x W x D	694 mm x 1150 mm x 200 mm (± 2 mm)
Weight (total)	35.6 kg ± 10%
Weight (without stand)	34 kg ± 10%

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