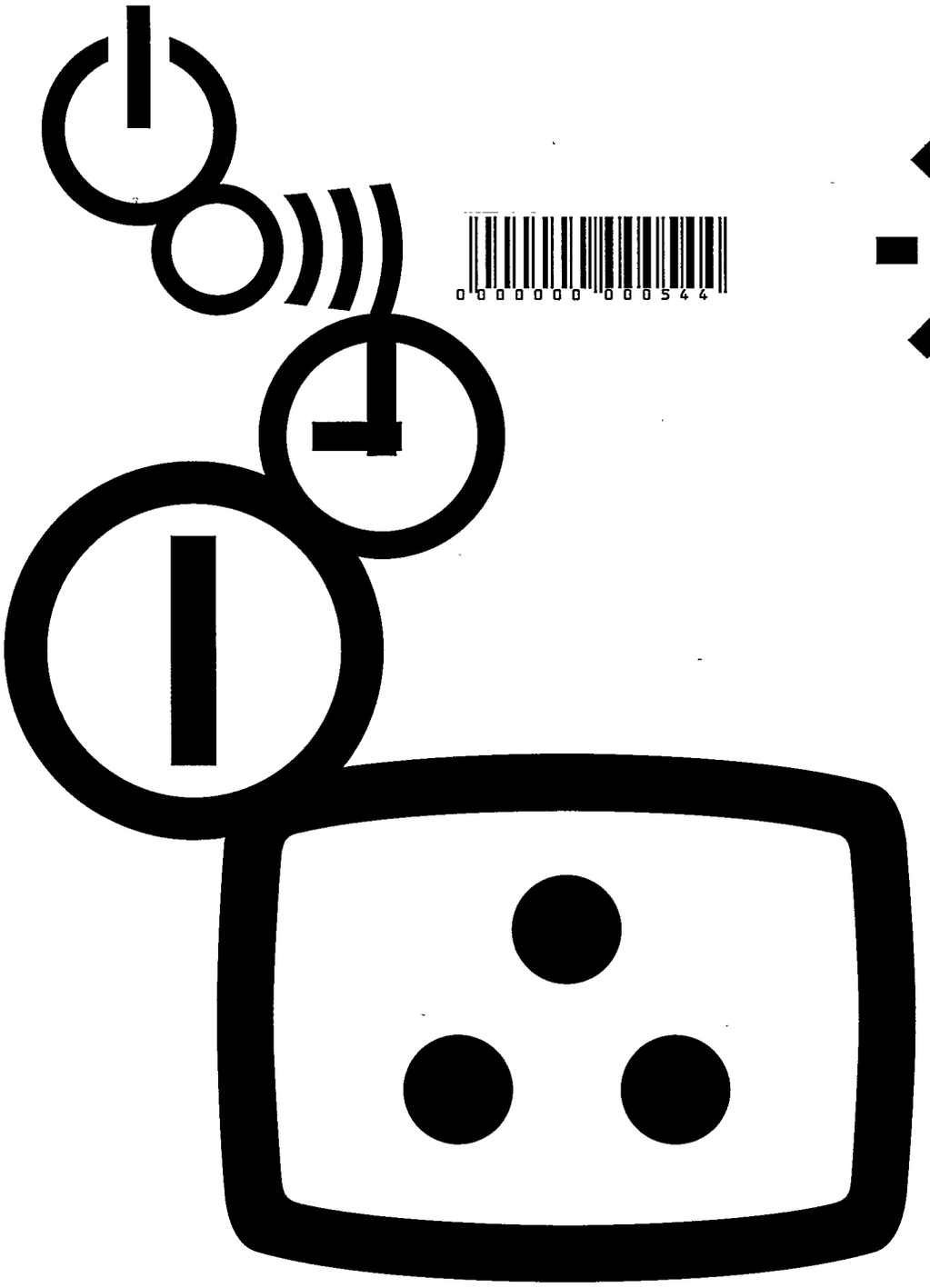


tv

32PW9723
28PW9623

PHILIPS

Information for users in the UK

(Not applicable outside the UK)

Positioning the TV

For the best results, choose a position where light does not fall directly on the screen, and at some distance away from radiators or other sources of heat. Leave a space of at least 5 cm all around the TV for ventilation, making sure that curtains, cupboards etc. cannot obstruct the air flow through the ventilation apertures.
The TV is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

General Points

Please take note of the section 'Tips' at the end of the English section in this booklet.

Interference

The Department of Trade and Industry operates a Radio Interference Investigation Service to help TV license holders improve reception of BBC and IBA programmes where they are being spoilt by interference.
If your dealer cannot help, ask at a main Post Office for the booklet "How to improve Television and Radio Reception".

Mains connection

Before connecting the TV to the mains, check that the mains supply voltage corresponds to the voltage printed on the type plate on the rear panel of the TV. If the mains voltage is different, consult your dealer.

Important

This apparatus is fitted with an approved moulded 13 Amp plug.
To change a fuse in this type of plug proceed as follows :
1. Remove fuse cover and fuse.
2. Fit new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.

In order to maintain conformity to the EMC directive, the mains plug on this product must not be removed.

Connecting the aerial

The aerial should be connected to the socket marked ⊣⊢ at the back of the set. An inferior aerial is likely to result in a poor, perhaps unstable picture with ghost images and lack of contrast. Make-shift loft or set-top aerials are often inadequate.
Your dealer will know from experience the most suitable type for your locality.
Should you wish to use the set in conjunction with other equipment, which connects to the aerial socket such as TV games, or a video camera, it is recommended that these be connected via a combiner unit to avoid repeated connection and disconnection of the aerial plug.

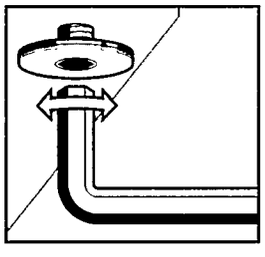
Loop aerial (if provided)

The loop aerial packed with the set will give satisfactory reception under good signal conditions. Fit the aerial bracket and lead by pushing the peg into the square hole in the backcover until it latches in place. Then insert the plug on the lead into the aerial socket.

Fitting the stand (if provided)

Use only the stand provided with the set, making sure that the fixings are properly tightened.
A diagram showing how to assemble the stand is packed in the castor bag.
Never use a make-shift stand, or legs fixed with woodscrews.

In some models only, in order to fit the stand it may be necessary to remove the feet with the key provided (see illustration).



To fit the stand remove the feet on the TV using the key supplied (see illustration).

Printed on recycled paper

Information for users in the UK

(Not applicable outside the UK)

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In order to maintain conformity to the EMC directive, the mains plug on this product must not be removed.

Connecting the aerial

The aerial should be connected to the socket marked ⊓ at the back of the set. An inferior aerial is likely to result in a poor, perhaps unstable picture with ghost images and lack of contrast. Make-shift loft or set-top aerials are often inadequate.
Your dealer will know from experience the most suitable type for your locality.
Should you wish to use the set in conjunction with other equipment, which connects to the aerial socket such as TV games, or a video camera, it is recommended that these be connected via a combiner unit to avoid repeated connection and disconnection of the aerial plug.

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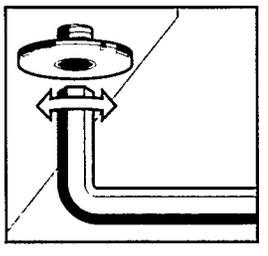

To fit the stand remove the feet on the TV using the key supplied (see illustration).

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easy LINK

EasyLink features are based on the "one touch operation" approach. This means that a sequence of actions are executed at the same time in both the television and the video cassette recorder, provided both are fitted with the EasyLink function and connected with the eurocable supplied.

Your remote control

Peripherals p. 23

selection of **EXT1, EXT2, EXT3** or **FRONT**

TV TV selection

VCR Video recorder selection

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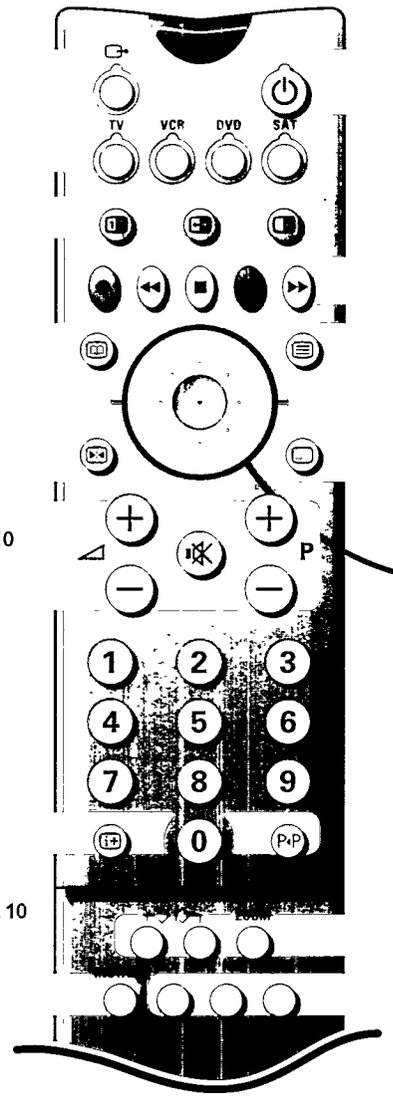
EasyLink p. 25

● **INSTANT** recording start/stop



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cursor to select your choice p. 4

OK activate your choice

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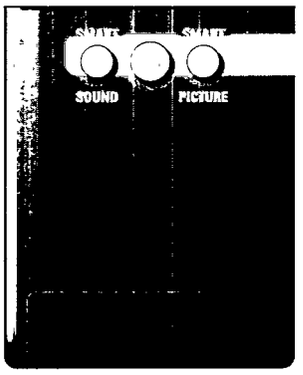

Smart Controls

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Colour keys

- **PICTURE, SOUND, FEATURES** menus, programmes, surround mode selection p. 10
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● record

◀◀ rewind

■ stop

▶ play

▶▶ wind

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solution to riddles

enlarge

Zoom p. 17

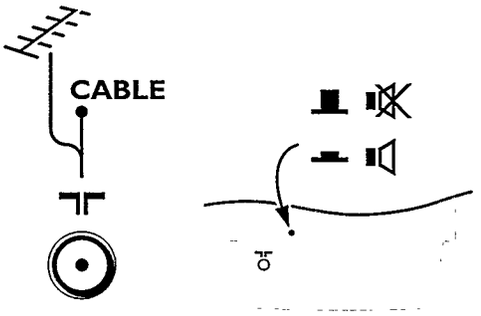
ZOOM/ zoom on/off

(only for 32" or 82 cm sets)

Preparation

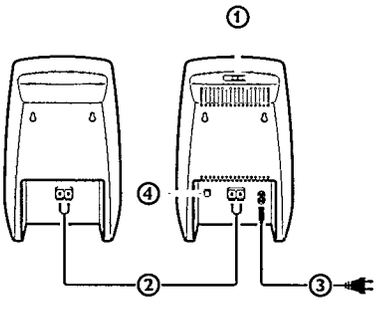
❶ **Place the TV on a solid surface.**
For ventilation, leave at least 5 cm free all around the TV.
To prevent any unsafe situations, do not place any objects on top of the TV.

❷ **Insert the aerial plug** tightly into the aerial socket ⊓ at the back of the TV.
You can improve the picture quality by using the suppressor aerial cable supplied.

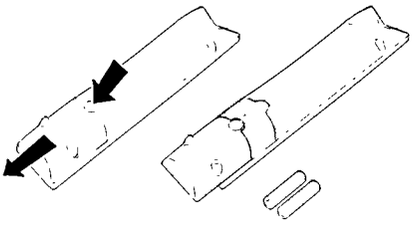


❸ Ensure the loudspeaker switch at the back of the TV is in the position.

❹ **Wireless surround speaker system.**
There are two surround loudspeakers supplied. One is the active loudspeaker, including the RF receiver, a power switch, the mains supply, a channel selector, a red and black connector clip, and a cinch connector to make a wired connection with your TV in case the wireless connection is disturbed or is not possible. The other loudspeaker is a passive one which has to be connected with the active loudspeaker with the supplied speaker cable.



- Set the slide channel switch ① on top of the active loudspeaker to channel 2. (In the factory channel 2 has been chosen as the default channel.)
See also Install Setup, p. 8.
- Connect the active to the passive loudspeaker with the supplied speaker cable. Push the connector clip down, insert one end of the wire into the opening of one connector clip ② and push it up again. Insert the other end of the same wire in the same colour connector clip of the other loudspeaker. Do the same with the other wire in the other connector clips. Do not insert the wires too far.
- The Surround sound loudspeakers should always be located behind or to either side of the listener. If preferred you can also hang the loudspeakers on the wall.
The maximum distance between the TV and the surround speakers should not exceed 15 m. The distance between the active and the passive speaker should maximum be 6 m.
Note: people moving around close to the TV may disturb the sound transmission.
- Connect the active loudspeaker to the mains with the supplied mains cable ③.
- Switch on the active loudspeaker with the **POWER** switch ④.
The green LED at the front of the active surround speaker shows that there is sound transmission.
If the red LED is on the speaker has switched to standby. To switch the active speaker off, use the **POWER** switch.



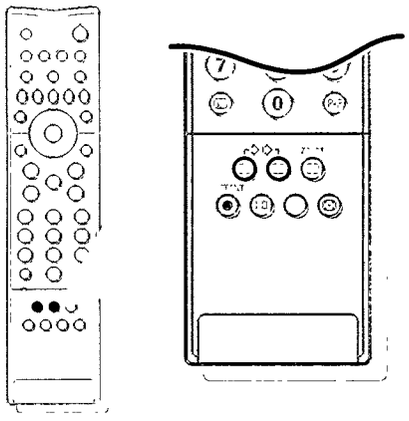
❺ Insert the mains plug in the wall socket with a mains voltage of 220V-240V.

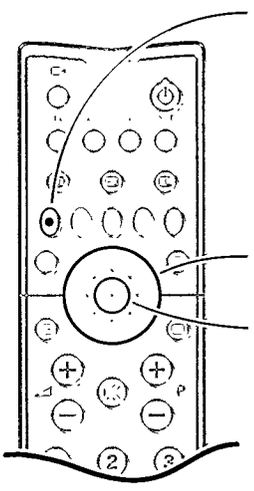
❻ Remote control: Remove the cover of the battery compartment.
Insert the 2 batteries supplied (Type R06G-1,5V).
Press the **TV** key to be sure your remote control is in the TV mode.

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries exhausted batteries may not be disposed of with your household waste. Please ensure you dispose of exhausted batteries according to local regulations.

❼ **Switch TV on:** Press the power switch ⏻ on the front of your TV.
A green indicator and the screen light up.
If the indicator is red, press the **- P +** key on the remote control.

The green lamp blinks every time you press a key on the remote control.
When you switch on your set for the first time, the menu LANGUAGE automatically appears on the screen. Alternatively the explanation appears in the different languages. Choose your own language and press the OK key on the remote control.





Installation

Select the INSTALLATION MENU :

❶ Open the door of the remote control.

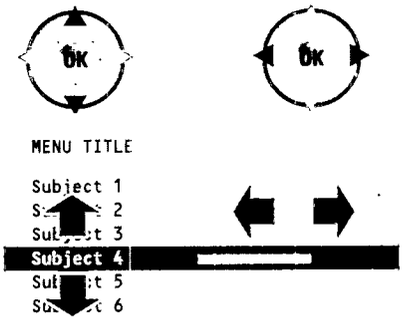
❷ Press ⏻ and ? at the same time.

To use the menus

❶ Use the cursor in the up/down, left/right direction to select a menu item.

❷ Press the **OK** key in the centre of the cursor to activate.

❸ Use the red ● key to return or to switch menu off.



Store TV channels

If the TV is connected to a video recorder with the EasyLink function, the TV automatically transfers the language and country selections to the video recorder. After the new or extra TV channel(s) ha(ve)s been stored, the TV automatically transfers that (those) TV channel(s) to the video recorder.
The message ***EasyLink : Downloading .....*** *appears on the screen.*
The programme list of the video recorder is now equal to the one of the TV.

Select the menu language and country

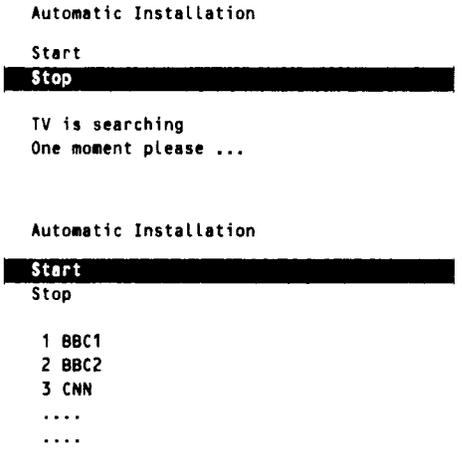
First, you have to select your language and your country.

1. Select the **Menu Language** and press the **OK** key in the centre of the cursor.
2. Select your language and press the **OK** key in the centre of the cursor.
3. Select **Country** and press the **OK** key in the centre of the cursor.
4. Select the country where you are now located and press the **OK** key in the centre of the cursor.
   Select **Other** when none of the countries applies.

You can now search for and store the TV channels in two different ways: using **automatic installation** or **manual installation** (tuning-in channel by channel).

- Select your choice and press the **OK** key in the centre of the cursor.

Automatic installation



In the Automatic Installation menu select **Start** and press the **OK** key in the centre of the cursor to activate the searching. All TV channels are searched for and stored automatically.

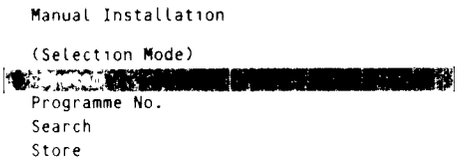
If a cable system which broadcasts ACI (Automatic Channel Installation) or a TV channel transmitting a teletext page with the frequencies and programme names of all the TV channels which can be received, is detected, the search is stopped and a programme list appears.
The programme list is automatically filled with all the programme numbers and names of the TV channels transmitted.

It is possible that the cable company or the TV channel displays a broadcast selection menu. Layout and items are defined by the cable company or the TV channel. Make your choice with the cursor and press the ***OK*** *key in the centre of the cursor.*

To exit from the menu

- Press the red ● key on the remote control.

Go on to page 7.



Manual installation

Searching for and storing TV channels is done channel by channel.
You must go through every step of the Manual Installation menu.

Selection Mode is only present and lights up if the country you selected also offers the channel option (C-channels for aerial channels, S-channels for cable channels).
You can choose either channel or frequency mode.

❶ Select the TV system

- Select the country or part of the world from where you want to receive the TV channel.
  If you are connected to a cable system, select your country.

❷ Enter the programme number with the digit keys.

❸ Search for a TV channel

The frequency or the channel number increases until a TV channel is found.
In case of poor reception, you can improve the reception by adjusting the frequency with the - P + key.

Direct selection of a TV channel

If you know the frequency, or the C- or S-channel number, enter it directly with the digit keys 0 to 9.
Ask for a list from your cable company or dealer, alternatively consult the Table of frequencies on the inside backcover of this handbook.

❹ Store steps ❶ till ❸

- Select **Store** and press the **OK** key in the centre of the cursor.

Repeat every step to store another TV channel.

To exit from the menu :

- Press the red ● key on the remote control.

INSTALLATION

Menu Language
Country

Automatic Installation
Manual Installation
Give Name
Reshuffle
Favourite Programmes

Connection diagrams

SETUP

Give name

It is possible to change the name stored in the memory or to assign a name to a TV channel which has not yet been entered. A name with up to 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1,... Between 99 and 0 you can also name any peripherals that are connected.

Give Name

EXT1
EXT2
EXT3
FRONT
0
1 BBC1
2 BBC2
3 ....
4 ....
5 ....

1. Select **Give Name** in the **INSTALLATION** menu and press the **OK** key in the centre of the cursor.
2. Select the programme number.
3. Press the **OK** key in the centre of the cursor.
4. Select the character with the cursor up/down.
5. Select the following position with the cursor left/right.
6. Select the following character.
7. Press the **OK** key in the centre of the cursor when finished.
8. Press the red ● key to return to the **INSTALLATION** menu.

A space, numbers or other special characters are located between Z and A.

Reshuffle the programme list

According to your preference you **can** change the order of the stored TV channels.

Reshuffle

EXT1
EXT2
EXT3
FRONT
0 BBC1
1 CNN
2 BBC2
3 ....
4 ....
5 ....

1. Select **Reshuffle** in the **INSTALLATION** menu and press the **OK** key in the centre of the cursor.
2. Select the programme number you want to change.
3. Press the **OK** key in the centre of the cursor.
4. Select the new number.
5. Press the **OK** key in the centre of the cursor.
   Repeat the operation until all TV channels are allocated as you like.
6. Press the red ● key to return to the **INSTALLATION** menu.

Select Favourite TV channels

After leaving the installation you can browse through the TV channels by pressing the **- P +** key. Only those TV channels which are in the favourite list will be displayed. The non-favourite TV channels can still be selected with the digit keys.

Favourite Programmes

0	No
1	Yes
2	**Yes**
3	No
4	No
5	Yes

1. Select **Favourite programmes** in the **INSTALLATION** menu and press the **OK** key in the centre of the cursor.
2. Select your favourite programme number.
3. Select **Yes** or **No**.
4. Repeat for every TV channel you want to change into a favourite or a non-favourite TV channel.
5. Press the red ● key to return to the **INSTALLATION** menu.

*If the TV is connected to a video recorder with the EasyLink function, the TV automatically transfers the reshuffled or modified TV channels to the video recorder. The message **EasyLink : Downloading Presets ...** appears on the screen. The programme list of the video recorder is equal again to the one of the TV.*

easy LINK

INSTALLATION

Menu Language
Country

Automatic Installation
Manual Installation
Give Name
Reshuffle
Favourite Programmes

Connection diagrams

SETUP

SETUP

Store Pers. Pref.
DVD
Decoder/Descrambler
(Picture tilt)
Information Line
Surround Sound Off/Channel 1...7
Auto Format Yes/No
INSTALLATION

Decoder/Descrambler

Programme
Decoder Status

easy LINK

Connection diagrams

See Connect Peripheral Equipment, p. 20.

Install TV Setup

1. Use the cursor in the up/down, left/right direction to select the menu item.
2. Use the **OK** key in the centre of the cursor to activate.
3. Use the red ● key to return or switch menu off.

Store Personal Preferences

The adjustments of Contrast, Brightness, Colour, Tint, Digital Scan or Digital options and Dynamic Contrast made in the picture menu and the adjustments of Volume, Graphic Equalizer and Loudness made in the sound menu can be stored in memory for all the TV channels.

DVD

See Connect Peripheral Equipment, TV and DVD, p. 21.

Define Decoder/Descrambler programme numbers

If you have connected a decoder or a descrambler, see p. 20, you can define one or more programme numbers as decoder programme numbers.

- Press the cursor left/right keys to select **Off**, **EXT1** or **EXT2**, the euroconnector where you connected your decoder.
- Select **Off** if you do not want the selected programme number being activated as a decoder programme number.

Select **EXT2** *when the decoder is connected to your EasyLink video recorder. When selecting the decoder, the message* ***EasyLink: Downloading Presets....*** *appears on the screen.*

Picture Tilt *(only for 32" or 82 cm sets)*

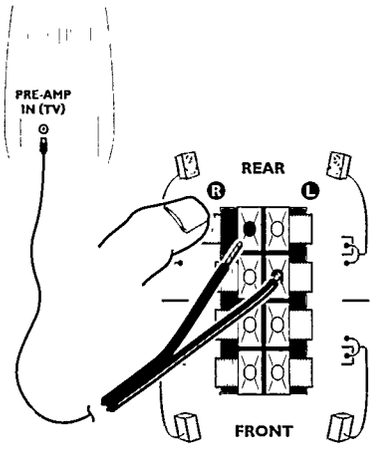
- Select **Picture Tilt** with the cursor up/down.
- Keep the cursor left/right pressed to adjust the rotation of the picture.

Information Line

After the selection of a TV programme or after pressing the i+ key on the remote control, a TV channel which broadcasts teletext may transmit the name of the TV channel or the programme name or another message which appears briefly in the information line on the screen.
When selected **Off**, the information line will only appear after pressing the i+ key, and not after the selection of a TV channel.

Auto Format

Selecting **Auto Format Yes**, the screen will automatically be filled as much as possible with the picture when TV programmes are not carrying special signals detecting the correct screen format.
With the ⊡ key on the remote control you can still select other picture formats (see p. 11).



Surround Sound

To make use of the wireless surround loudspeakers, use the cursor left/right to select the same channel as you selected on the active loudspeaker. (Ex factory, channel 2 has been selected as default.)
A disturbance free sound reproduction will be guaranteed under most circumstances.
To avoid interferences from external RF (wireless) equipment such as a headphone, RF audio, remote controls for light, ... it may be necessary to shift to another channel number.
Always be sure that the active surround speaker and the Surround Sound setting are switched to the same transmitting channel. Otherwise no sound or only a distorted sound will be heard on the surround speakers.

When no RF surround sound is possible or when there is too much interference, use the wired back up solution. In this case select **off** in the Surround Sound menu item.
Connect the supplied cinch cable with the **PRE-AMP IN (TV)** connector at the back of the active surround loudspeaker and with the black **REAR L** and red **REAR R** connector clips at the back of the TV.

Installation

Select **Installation** and press the **OK** key in the centre of the cursor to return immediately to the **INSTALLATION** menu.

To exit from the menu

4 Keep the red ● key on the remote control pressed.

Use of the remote control

Select peripherals

Press this key repeatedly to select **EXT1**, **EXT2**, **EXT3** or **FRONT**, according to where you connected your peripherals (see p. 23).

TV VCR DVD SAT

TV, Video recorder, DVD or Satellite operation

Press one of this keys to use the remote control directly in the TV, video recorder, DVD or satellite mode.

Dual Screen see p. 17

for future use

Programme Guide

TV channels which broadcast teletext also transmit a page with the programme guide of the day. For each TV channel you can store the programme guide page which can be selected directly with the key.

- Press to switch on teletext and select the proper programme guide page.
- Press for 2 seconds to store the selected page.
- Press again to switch off teletext.

Every time you press the key, the programme guide page of the selected TV channel will be available. Press cursor up/down or the **+ P -** key to run through the previous or the following pages and subpages. Press the key again to switch the page off.

For every TV channel the programme guide page should be stored separately.

Freeze

To activate/de-activate the frozen picture.

Volume

The volume is adjusted. If you want to store the volume adjustment in the memory, see the Setup menu, Store Pers. Pref., p. 8 to store the same volume adjustment for all the stored TV channels.

Mute key

Temporarily interrupt the sound or restore it.

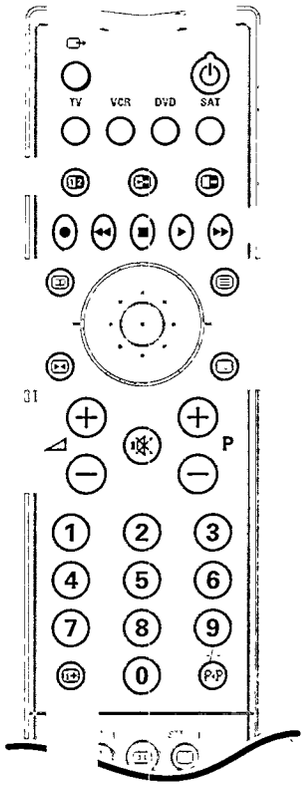
P Programme selection

To browse through the TV channels activated in the Favourite Programme menu. See p. 7.

0/9 Digit keys

To select a TV channel.

For a two digit programme number, enter the second digit within 2 seconds.



Standby

The set is switched off and the red indicator lights up. To switch the TV on again, press **- P +** or the digit keys.

Your TV consumes energy in the standby mode. Energy consumption contributes to air and water pollution. We advise to switch off your TV overnight instead of leaving it on standby. You save energy.

PICTURE, SOUND and FEATURES menu

Programmes

Select the desired TV channel with cursor up/down and press the **OK** key in the centre of the cursor.

Video recorder see p. 22.

Surround-mode selection

Press this key repeatedly to select another surround mode: Pro Logic, Dolby 3 Stereo, Hall or Off.

Teletext on/off see p. 18.

Continuous subtitles

TV channels with teletext often transmit certain programmes with subtitling.

Switch on teletext and select the proper subtitle page from the index.

Press to store the subtitle page.

Switch off teletext.

Every time a programme of the selected TV channel is subtitled, the subtitling will be available for that TV channel.

Press to switch subtitles **On** or **Off**.

When switched on and the subtitle symbol appears, there are no subtitles available for that programme.

Note: subtitling is not available when in Dual Screen mode with teletext.

Previous programme

The previously selected TV channel is displayed.

The -/-- indication has a video recorder/DVD function.

Screen information / Permanent programme number

Press for 5 seconds to activate/de-activate the continuous display of the programme number and extended or reduced display of TV channel and programme information on the screen. *This function is not available when continuous subtitles have been switched on.*

Press briefly to display information about the selected TV channel and programme, the sound reception, the selected DNR setting and picture format and the remaining time set with the sleeptimer.

Press to activate/de-activate the continuous display of the zoom magnification. *(only for 32" or 82 cm sets)*

Time display

The time, downloaded from the TV channel (with teletext) stored on programme number 1 or under the lowest favourite programme number, is displayed on the screen.

This function is not available when continuous subtitles have been switched on.

Reveal (in teletext mode)

Press to reveal/conceal the hidden information, such as solutions to riddles and puzzles.

Enlarge (in teletext mode)

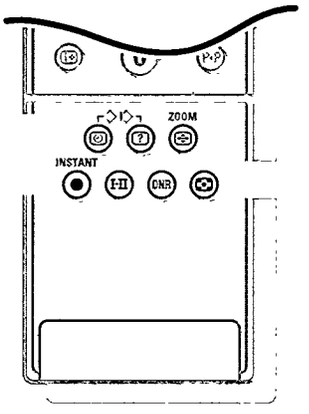
Press repeatedly to display the upper part, the lower part and then to return to the normal page size.

Zoom see p. 17.

(only for 32" or 82 cm sets)

Instant record/stop

If your video recorder has the EasyLink function the **INSTANT** ● key for record can be operated in the TV mode. Press again to stop.



I-II Bilingual choice and sound mode selection

Press this key

- to switch from **Stereo** to **Mono** sound, in case of stereo transmission, or from **Digital Sound** to **Digital Sound available**, in case of digital transmission;
- to choose between language I (Dual I)or language II (Dual II), in case of bilingual transmission.

The setting is stored for each TV channel separately.

DNR Dyn. Noise Reduction

To reduce the image noise and improve picture quality when receiving weak signals. Press this key to select **Off** or **Automatic**. When **Automatic** is selected, the image noise reduction is set automatically.

Strobe

Press this key to reproduce the picture image by image.
Press the key to have a faster speed.
Press again to switch off the strobe function.

Smart Keys

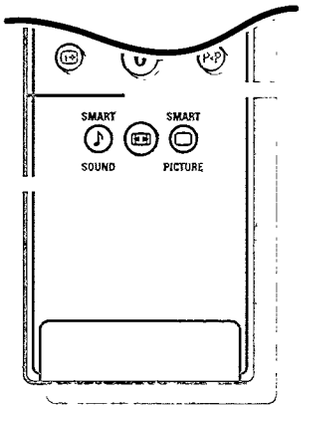
To select predefined picture and sound settings.

Smart Picture

Each time it is pressed, a different picture setting is selected, corresponding with a specific predefined setting of Contrast, Colour, Sharpness and Dyn. Contrast.

Smart Sound

Each time it is pressed, a different sound setting is selected, corresponding with a specific predefined setting of Treble, Bass or Loudness.
Automatic refers to the settings automatically selected according to the programme being broadcast.
Personal refers to the personal preference setting of picture and sound which you have stored with Store Pers. Pref. in the Setup menu, p. 8.
The smart picture and sound settings are set to **Manual** until the personal adjustments are stored and you switched off the TV and on again.



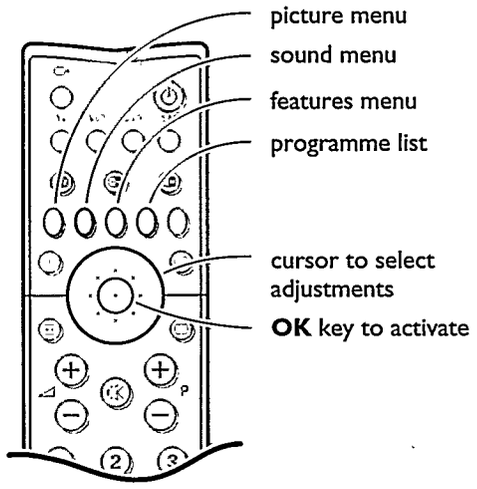
Picture format

Press this key repeatedly to select another picture format: 4:3, Movie Expand 14:9, Movie Expand 16:9 with or without subtitling, Wide Screen, Automatic (in case Auto Format Yes has been selected in the **SETUP** menu) or Super Zoom,
When in Movie Expand 14:9 or 16:9 picture format you can make subtitles visible with the cursor up/down.

Sometimes video recorders or TV programmes carry special signals which will automatically switch the TV to the correct screen format.

Selecting Auto format, the screen will be filled as much as possible with the picture when TV programmes are not carrying special signals detecting the correct screen format.

Auto format is disabled when in Dual Screen.



SETUP

Store Pers. Pref.
DVD
Decoder/Descrambler
(Picture tilt)
Information Line
Surround Sound Off/Channel 1...7
Auto Format Yes/No
INSTALLATION

PICTURE

Contrast
Brightness
Colour
Sharpness
Tint
Digital Scan or Digital options
Dynamic Contrast

Use of the menus

1. Press the red, green or yellow colour key to display/cancel the **PICTURE, SOUND** or **FEATURES** menu.
2. Use the cursor in the up/down, left/right direction to select the menu item.
3. Use the **OK** key in the centre of the cursor to activate.
4. Press the same colour key again to return or to switch menu off.

Picture menu

When you are watching a TV channel in the NTSC-system, or if a NTSC peripheral is connected to one of the euroconnectors, the option Hue also appears

- Store the modified adjustments for Contrast, Brightness, Colour, Tint, Digital Scan or Digital options and Dynamic Contrast for all TV channels with **Store Pers. Pref.** in the **SETUP** menu.

Sharpness

You can adjust the Sharpness for each TV channel separately.

Tint

- Select the colour temperature: **Normal, Warm** or **Cool.**

Digital Scan (Line Flicker Reduction) *(only for 28" or 74 cm sets)*

Not available in Movie Expand picture format.
In certain circumstances while watching TV programmes it may be preferred to switch off the digital scan line flicker reduction.

- Press the cursor left/right to select **On** of **Off.**

Digital Options *(only for 32" or 82 cm sets)*

Although Natural Motion is the most ideal setting, it may be preferred to switch back to Digital Scan and/or 100 Hz.

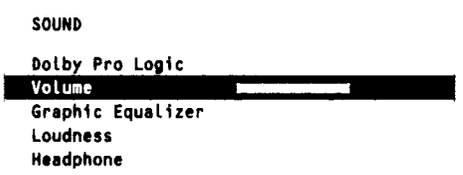
- **100 Hz** = 100 Hz only (Field flicker reduction)
  Not available in Movie Expand picture format
- **Dig. Scan** = 100 Hz + Dig. Scan (Field and line flicker reduction)
- **Natural Motion** = 100 Hz + Dig. Scan + Natural Motion (Field and line flicker reduction and smooth movement reproduction)

Dynamic Contrast

To make the contrast between darker and brighter picture parts more noticeable, select the **Med** setting.
In certain circumstances it may be preferred to select **Min** or **Off.**

Sound menu

- Store the modified adjustments for Volume, Treble and Bass from the Graphic Equalizer menu and Loudness for all TV channels with **Store Pers. Pref.** in the **SETUP** menu.



Graphic Equalizer

Here you can select the preferred sound style which does not correspond with a specific predefined setting of the graphic equalizer under the Smart Controls key ♪. The sound style is set to Manual until the personal graphic equalizer settings are stored and you have switched your TV off and on again.

Switch Loudness on or off

When **Loudness On** is selected, the low and high frequencies are amplified so that the natural balance is restored when listening at a low volume.
The selected setting for Loudness is stored for all TV channels.

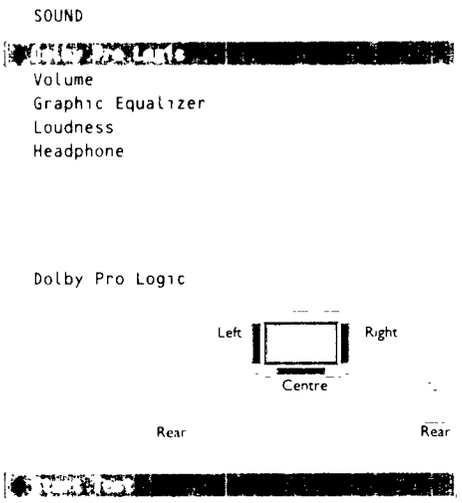
Headphone

See Connect Peripheral Equipment, p. 21 for the connection of the headphone.
Select **Dual** to choose between the dubbed or original language when the TV channel broadcasts in two languages.

To exit from the menus

- Press the corresponding red, green or yellow colour key.

Dolby* Pro Logic



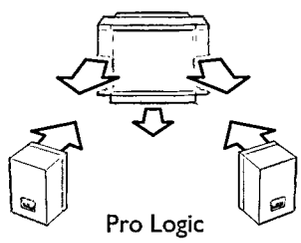
Adjust the volume balance level of the loudspeakers

Most programmes will sound good with the volume balance between the centre left and right and rear loudspeakers in an equally loud position. However, some programmes may benefit from an adjustment of the level of the respective speakers.
Which loudspeakers are active depends on the Surround Mode selection you make below.

1. Select **Pro Logic** in Surround Mode of the **DOLBY PRO LOGIC** menu.
2. Select **Start Test** and press the **OK** key in the centre of the cursor.
   A steady noise tone is switched sequentially through the left, centre, right and rear loudspeakers, for 2 seconds each. This enables you to adjust the volume of the separate loudspeakers.
   The loudspeakers activated light up in the on screen graphic.
3. Select **Centre Volume, Balance** or **Rear Volume** and alter the selected adjustments.
4. Select **Stop Test** in the **DOLBY PRO LOGIC** menu and press the **OK** key when you have finished the adjustments of the level of the speakers.

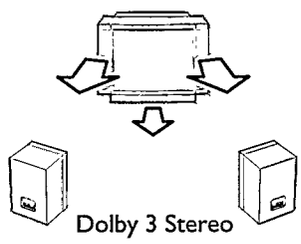
Surround mode

Select the Dolby Surround Sound mode according to the sound mode being broadcast.
When no Surround Sound is available (Dolby 3 Stereo or Off) the wireless surround loudspeakers are switched to standby after about 15 seconds



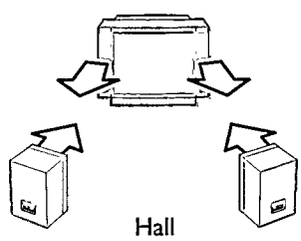
Pro Logic (with Dolby Surround broadcasting)

In addition to the left and right front speakers, the centre and the rear surround loudspeakers reproduce the Dolby Surround Pro Logic sounds. This 4-channel sound is always recorded when the movie or programme is marked with ◻◻ Dolby Surround.
This mode is especially recommended for such programmes as movies.



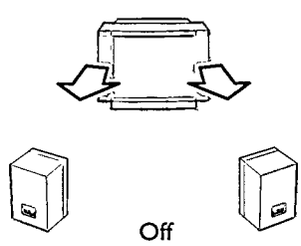
Dolby 3 Stereo (with Dolby Surround broadcasting)

The Dolby 3 Stereo sound signal is now distributed over the front left, the front right and the centre loudspeakers.
The rear loudspeakers do not produce any signal.



Hall (with Dolby Surround broadcasting)

The centre sound signal is distributed over the rear loudspeakers which creates a hall effect from the rear.
The centre loudspeaker does not produce any signal.
This mode is recommended when you wish to add surround sound to a broadcast which is not encoded Dolby Surround.



Off

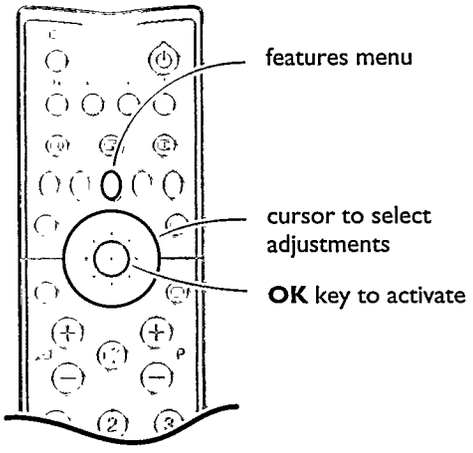
This mode reproduces only the left and right front sound signals.
You only hear a stereo sound if the broadcast which you are watching or listening to is transmitted in stereo or digital sound.

When the wireless surround loudspeakers are disturbed or when there is too much interference from other external RF equipment, make use of the wired back up solution. See Install TV Setup, Surround sound, p. 9.

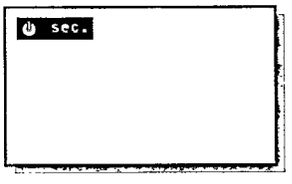
- Press the green ◀◀ key to return to the **SOUND** menu.

* ◻◻ DOLBY SURROUND PRO • LOGIC

'Dolby' 'Pro Logic' and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.
Manufactured under license from Dolby Laboratories Licensing Corporation



FEATURES
Recall Pers. Pref.
Sleeptimer
Message
Child Lock
Animation demo



Features menu

1. Press the yellow colour key to display/cancel the **FEATURES** menu.
2. Use the cursor in the up/down, left/right direction to select the menu item.
3. Use the **OK** key in the centre of the cursor to activate.

Recall Personal Preferences

Select **Recall Pers. Pref.** and press the **OK** key in the centre of the cursor to restore picture and sound settings, stored in the Setup menu. See p. 8.

Sleeptimer

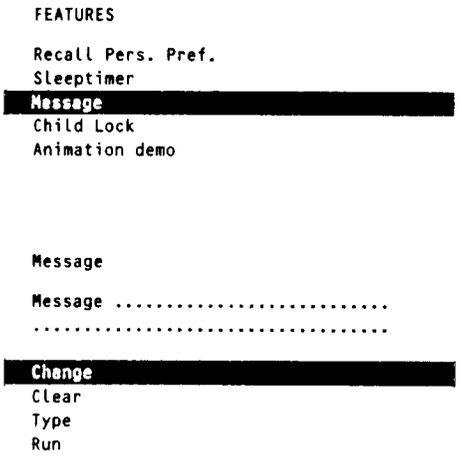
With the sleeptimer you can set a time period after which the TV should switch itself off to standby.
The counter runs from **Off** up to **180 min.** or from **180 min.** down to **Off**.
One minute before the TV is set to go to standby, the remaining seconds appear on screen. You can always switch off your set earlier or change the set time.

Child Lock

If the child lock is on, the TV can only be switched on with the remote control. The - and + keys on top of the TV cannot be used to select a TV channel. In this way you can prevent unauthorised use of your TV.
If the message **Child Lock On** appears, the child lock must be switched off before you can use the - and + keys on top of the TV to select a TV channel.

Animation demo

Selecting this menu item starts a continuous loop of an animation introducing your TV. This animation has no operational function.
Press the **OK** key in the centre of the cursor to stop the animation.



Message

With this function you can enter a personal message on 2 lines which will be displayed automatically when the set is switched on from standby.
For example: I'll be late this evening. Don't wait for dinner.

Change

- Select with the cursor up/down the letter or number you want to enter.
- Select with the cursor right the next position.
- Press the **OK** key in the centre of the cursor when you have entered the complete message.

Clear

- Press the **OK** key in the centre of the cursor to remove a previous message.

Type

- Press the cursor left/right to select the way the message will be displayed : **Wipe, Slide, Fall** or **Fade.**
The Fade display is a randomly selection of the three other display types.

Run

- Press the cursor left/right to select the display frequency : **Continuous, Once** or **No.**

Display message

- Switch the TV to standby.
The message appears on the screen when the TV is switched on again.
If you selected **Once,** the message will disappear from the screen after 30 seconds.
If you selected **Continuous,** the message will appear on the screen until the display frequency is switched off in the Message menu.
The message does NOT appear when Continuous Subtitles have been switched **On.** See p. 10.

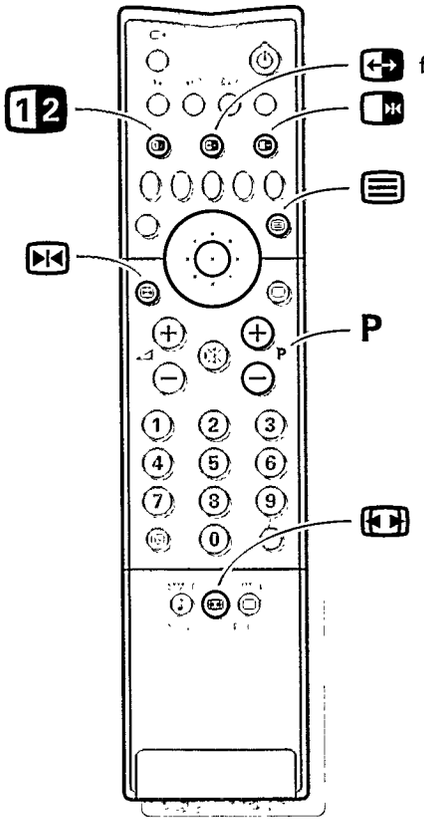
The keys on top of the TV

Should your remote control be lost or broken you can still change some of the basic picture and sound settings with the keys on top of the TV.

- Press the **MENU** key repeatedly to select **Volume, Brightness, Colour** or **Contrast.**
- Press the - or + key to regulate the selected adjustment.
When the menu adjustment is not displayed, the - and + keys enable you to select the TV channels.

The selected adjustment automatically switches off when after 10 sec. no action has been executed.

Dual Screen



1. Press the 12 key to switch on Dual Screen.
   The TV screen is divided into 2 parts:
   - the left side for the normal main picture,
   - the right side for teletext broadcast by the selected TV channel .

   To operate teletext, see p. 18.

   If Dual Screen is **Off**, the picture or teletext are displayed full screen.

2. Press the key to select a vertical squeezed or a non vertical squeezed picture size.

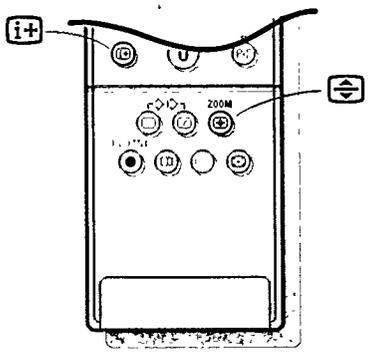
3. Press **+ P -** to run through the teletext pages.

4. Press the key to return to a full picture screen and to select another TV channel with the + P - or with the digit keys.

Select still picture

- Press the ▶I◀ key to freeze the pictures.
- Press the key to freeze only the teletext picture.
  The information in this page is not being updated by the teletext broadcaster.

Zoom

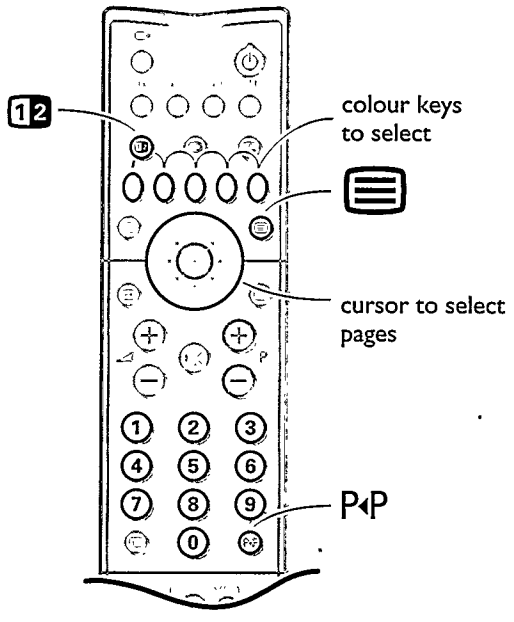


(only for 32" or 82 cm sets)

- Press the **ZOOM** key repeatedly to select one of the zoom magnifications (x1, x4, x9, x16).
  Additionally you can shift the selected zoom window over the screen with the cursor.
- Press to activate/de-activate the continuous display of the zoom magnification.
  The zoom window is reset after: selecting another TV channel, another picture format or when another picture format is selected automatically, or in the dual screen mode.

Zooming is disabled in Dual screen mode.
Dynamic Contrast is disabled when zoom is active.

Teletext



Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the main index (usually p. 100).

Depending on the TV channel, teletext is transmitted in different systems. The colours used in the options line correspond with the colour keys of your remote control.

About the Easy Text system

The Easy Text system considerably reduces the waiting time (on condition the teletext broadcast of the particular TV channel is switched on for at least half a minute) by :

- a **direct selection** of previous and following pages which are in transmission and of the pages referred to in the options line
- a **habit watcher list**: frequently used pages are put in a list of preferred pages, so that they are immediately available afterwards
- the **precapturing of the page numbers** referred to in the displayed page
- the **precapturing of all the subpages.**

Switch Teletext on and off

- Press ☰ to switch on or off the teletext.
  The main index page appears on the screen together with two information lines at the top and one option line at the bottom of the screen.

Select a Teletext page

With the digit keys

- Enter the desired page number with the digit keys.
  The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
  A message appears when you have entered a non existent or an incorrect page number. Page numbers beginning with 0 or 9 do not exist. Choose another number.

With the option line

- Select with the colour keys, corresponding to the coloured options at the bottom of the screen, the desired subject.

Select Picture/Teletext

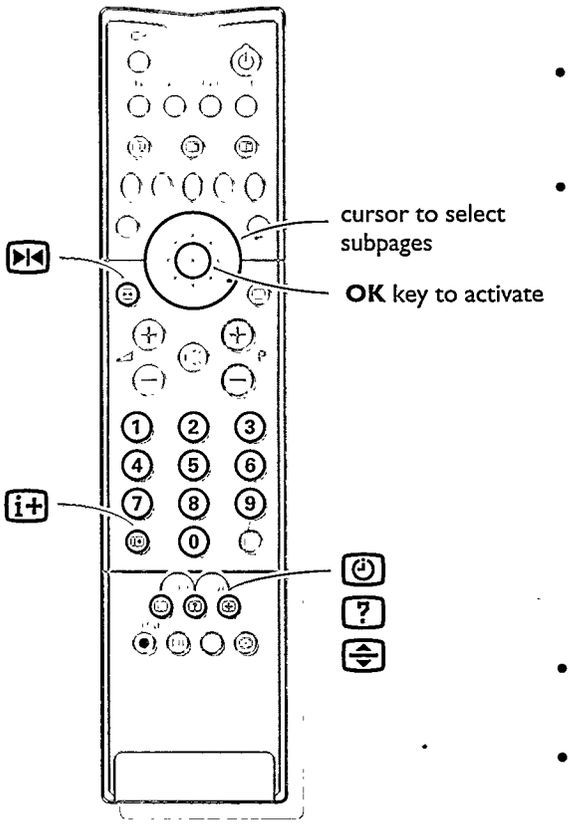
- Select a TV channel which broadcasts teletext.
- Press the 1 2 key.
  The screen is divided into two parts: the left side for the normal main picture, the right side for teletext broadcast by the selected TV channel.
- Press the ☰ key to return to a full screen picture.

Quickly run through the teletext pages

- Press cursor up/down or the - P + key to run through the previous or the following pages.

Select the previously selected txt page

- Press the P◂P key.



Select the index teletext page

- Press the white colour key to display the main index (usually p.100).

Only for T.O.P teletext broadcasts :

T.O.P orders the pages in categories and adds other possibilities of enhancing ease of use.

- Press i+. A T.O.P. overview of the teletext subjects available appears.
  Not all TV channels broadcast T.O.P. teletext. When the teletext system is not T.O.P. teletext, a message appears at the top of the screen.
  A T.O.P. overview is not available when in Dual Screen mode.
- Select with the cursor up/down, left/right the desired subject and press the **OK** key in the centre of the cursor.

Select subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.
The coloured number in the first information line refers to the displayed subpage.
The other subpages can be selected in 2 ways :

1. With the cursor left/right

The other subpage numbers appear in white as soon as the transmission has found them. They are stored in the memory so that they are available while the teletext page is on screen.

- Select with the cursor left/right the previous or the following subpage.

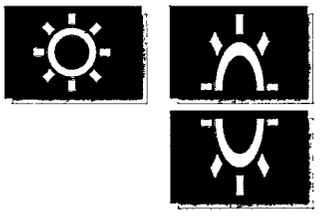
2. With the ⏲ key.

- Enter the subpage number yourself.
  Press ⏲. Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
  The TV searches for the selected subpage.

Automatically rotating subpages:

- Press ⏲ again to cancel the entered digit key for the subpage.
  Now the subpages rotate automatically.

- Press ⏲ again to select the subpages with the cursor left/right again.



Special teletext functions

Hold

- Press ⏯ to stop the page counter from seeking when you have entered a wrong page number or when the page is not available.
- Enter another page number.
  Not possible in dual screen teletext mode.

Enlarge

- Press ⇳ repeatedly to display the upper part, the lower part and then to return to the normal page size. When the upper part is displayed, you can scroll the text line per line by using the cursor up/down.

Reveal

- Press ? to reveal/conceal the hidden informations, such as solutions to riddles and puzzles.

Connect Peripheral Equipment

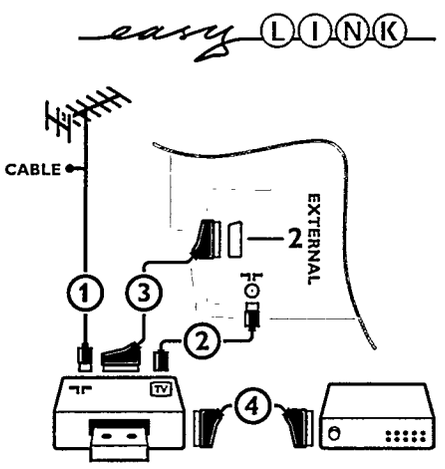
Connection diagrams

Amplifier
Front speakers
Rear speakers
DVD
Decoder/Descrambler
VCR1
VCR2
Antenna

There is a wide range of audio and video equipment that can be connected to your TV. The following connection diagrams show you how to connect it. See also **Connection diagrams** in the **INSTALLATION** menu where the different connection possibilities are shown. Each time a menu item is selected a graphic is shown of the connection. Those graphics have no operational function.

Video recorder

- Connect the aerial cables ①, ② and, to obtain a better picture quality, eurocable ③ as shown opposite.



If your video recorder is provided with the EasyLink function, the eurocable supplied with it, should be connected to ***EXTERNAL 2*** *to benefit from the EasyLink functionality.*

You have to do the following if you do not connect the eurocable ③,

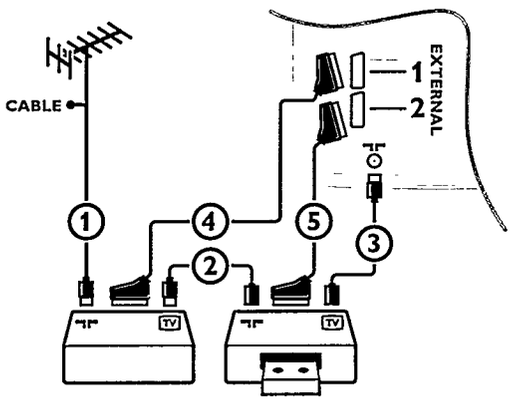
Search for and store the test signal of the video recorder

- Unplug the aerial cable ① from the aerial socket ⊓ of your video recorder.
- Switch on your TV and put the video recorder on the test signal. (See the handbook for your video recorder.)
- Search for the test signal of your video recorder in the same way as you searched for and stored the TV signals. See Installation, Searching for and storing TV channels, Manual Installation, p. 6.
- Store the test signal either under programme number 0 or between 90 and 99.
- Replace the aerial cable in the aerial socket ⊓ of your video recorder after you have stored the test signal.

Decoder and video recorder

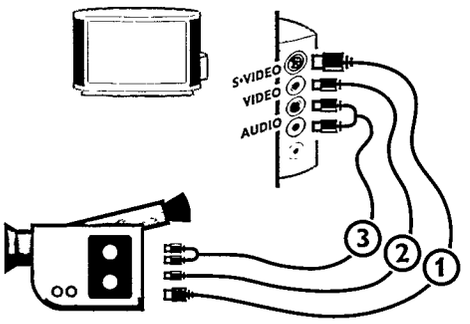
- Connect a eurocable ④ to your decoder and to the special euroconnector of your video recorder. See also the video recorder handbook.
  See Define Decoder/Descrambler prog. numbers, p. 8.
  You can also connect your decoder directly to **EXTERNAL 1** or **2** with a eurocable.

Video recorder and other peripherals (except DVD)



- Connect the aerial cables ①, ② and ③ as shown opposite. Better picture quality can be obtained if you also connect eurocable ⑤ to **EXTERNAL 2** and a eurocable ④ to **EXTERNAL 1** or **3**.
- Look for the test signal of your peripheral in the same way as you do for a video recorder.

When a video recorder is connected to **EXTERNAL 1** you can only record a programme from your TV.
Only when a video recorder is connected to **EXTERNAL 2** it is possible to record a programme from your TV as well as from other connected equipment. See Record with your video recorder, p. 25.

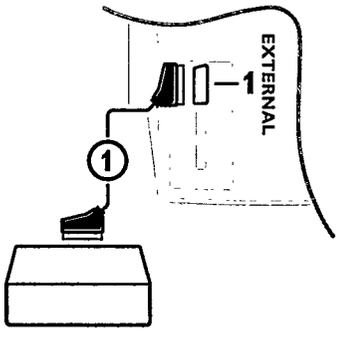


Camera and camcorder

- Connect your camera or camcorder at the right side of your TV.
- Connect the equipment to **VIDEO** ② and **AUDIO L** ③ for mono equipment.
- Press the I-II key under the door of the remote control repeatedly to select the sound coming from one or both loudspeakers of your TV.
- For stereo equipment also connect **AUDIO R** ③ .
  S-VHS quality with a S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ① and **AUDIO** inputs ③.

Other equipments

Connect the eurocable ① to **EXTERNAL 1** as shown opposite.



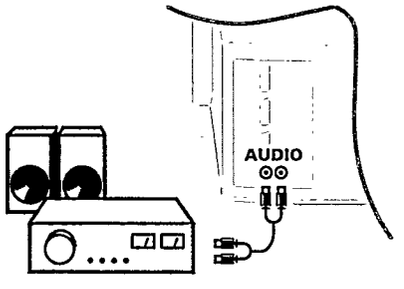
Only for DVD :

- Press and ? at the same time.

```
INSTALLATION

Menu language
Country

Automatic Installation
Manual Installation
Give Name
Reshuffle
Favourite Programmes

Connection diagrams

SETUP
```

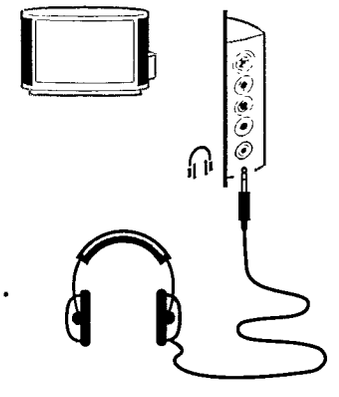
```
SETUP

Store Pers. Pref.
DVD
Decoder/Descrambler
(Picture tilt)
Information Line
Surround Sound          Off/Channel 1...7
Auto Format                      Yes/No
INSTALLATION
```

- Select **DVD Present** in the Setup menu of the **INSTALLATION** menu.
  This offers you optimum picture quality for your DVD.
- Keep the red ● key pressed to switch off all menus.



Audio equipment / Amplifier

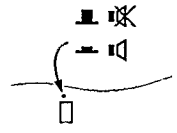
- Connect the audio cables to the audio input of your audio equipment and to **AUDIO L** and **R** at the back of your TV.
  You can listen to your TV sound via your audio equipment.

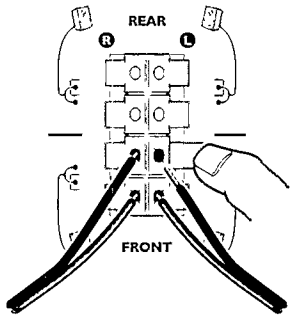


Headphone

- Insert the plug into the headphone socket at the right side of the TV.
- Press on the remote control to switch off the internal loudspeakers of the TV.
  The headphone impedance must be between 8 and 4000 Ohm. The headphone socket has a 3.5 mm jack.

In the **SOUND** menu select **Headphone** to adjust the headphone volume and to select dubbed or original language (when the TV channel broadcasts in two languages) for your headphone sound. See p. 13.





Extra loudspeakers

You can replace the left and right loudspeakers of your set by two extra loudspeakers, min. 8 Ohm.

- Connect the two loudspeakers to the connector clips at the back of the TV. Connect the left front loudspeaker at **FRONT L**; the right front loudspeaker at **FRONT R.**

Push the connector clip down and insert the end of the wire into the opening, the positive wire (the one with the black line) to the red loudspeaker connection, the negative wire to the black loudspeaker connection. Do not insert the wires too far

- Select a low volume adjustment and put the loudspeaker switch at the back in the position.
The internal right and left loudspeakers of your TV are now switched off.

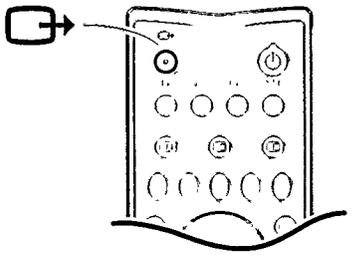
If you want to connect more equipment to your TV, consult your dealer.

To select connected equipment

If the TV is connected to a video recorder with the EasyLink function, in some cases the TV will be switched on, even when the TV was in standby. (E.g. playback tape,...) This is not possible when Child Lock On is selected.

Equipment connected with an aerial cable only :

- Select the programme number under which you have stored the test signal with the digit keys.



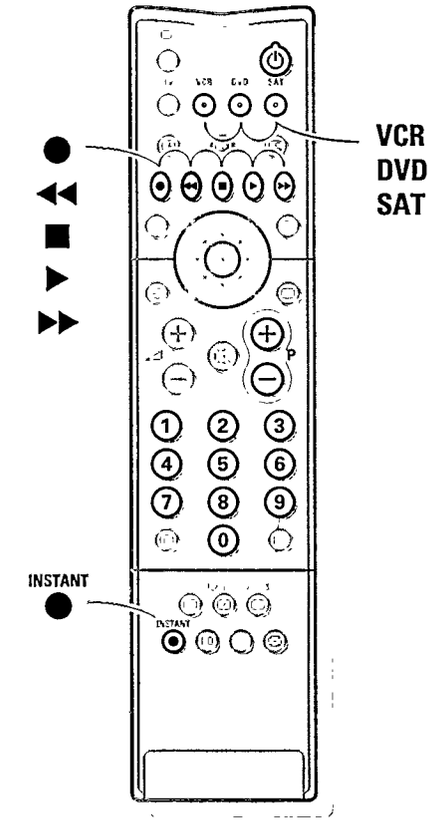
Equipment connected to a euroconnector or to the right side of the TV

- Press the ⇨ key repeatedly to select **EXT1, EXT2, EXT3** or **FRONT,** according to where you connected your equipment at the back or the right side of your TV.

Remark : Most equipment (decoder, video recorder) carries out the switching itself.

Do you want to watch TV channels again ?

- Enter the programme number of the TV channel which you want to watch with the digit keys.



Video recorder, DVD and Satellite keys

Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.

- Press the **VCR, DVD** or **SAT** key according to the equipment you want to operate with this remote control.

Video recorder

Press one of the video recorder keys after you pressed the **VCR** key :

- ● for record,
- ◀◀ for rewind,
- ■ for stop,
- ▶ for play,
- ▶▶ for fast forward,
- -/-- for selecting 1- or 2-digit programme numbers from the video recorder tuner,
- **- P +** for fast programme selection from the video recorder tuner,
- **0** to **9** to select a programme number from your video recorder tuner,
- ⏻ to switch the video recorder to standby

These keys function with video recorders which use the RC5 signalling standard.

If your video recorder has the EasyLink function, the key **INSTANT** ● *for record and stop* ***under the door of the TV remote control,*** *can be operated in the TV mode.*

Record with your video recorder without EasyLink

To record S-VHS quality, connect a S-VHS peripheral directly to the video recorder.

1. Record a TV programme

using only an **aerial cable**

- Select the programme number on your video recorder.
- Set your video recorder to record.
  (See the handbook for your video recorder.)

Switching programme numbers on your TV does not disturb recording !

using a **eurocable** connected to the euroconnector **EXTERNAL 2**

With a video recorder connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment.

- Select the programme number or external input on the TV.
- Select the right external on your video recorder.
- Set your video recorder to record.
  You record what you are watching on the screen.

Do not switch programme numbers or do not switch off your TV when you are recording !

using a **eurocable** connected to the euroconnector **EXTERNAL 1**

With a video recorder connected to EXTERNAL 1 you can only record a TV channel.

- Select the programme number on the TV.
- Select the right external on your video recorder.

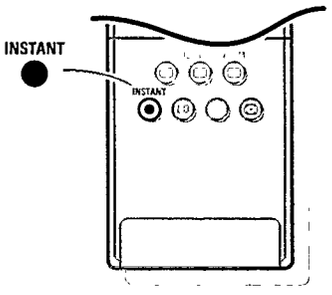
Switching to a programme from a connected peripheral equipment does not disturb recording .

2. Record a programme on your video recorder connected to EXTERNAL 2 from Audio/Video equipment connected to EXTERNAL 1, EXTERNAL 3 or to the right side

- Switch on the equipment.
- Select the right external on your video recorder.
- Set your video recorder to record.
  You record what you are watching on the screen.

Do not switch programme numbers or do not switch off your TV when you are recording !

Record with a video recorder with EasyLink



If you have connected a S-VHS video recorder provided with the EasyLink function, you can record S-VHS-quality from a S-VHS peripheral connected to the right side of the TV. (E.g. from a S-VHS camcorder.)

In TV mode, it is possible to start a direct recording of the programme which is being displayed on the TV screen.

- *Press the* **INSTANT** *record key* ● *under the door of the remote control of the TV or of the video recorder or the record key on the video recorder.*
  The video recorder switches on when it was in standby and a message of what is being recorded appears on the screen.
  The video recorder starts recording the programme you are watching.
- *Press the* **INSTANT** ● *key again to stop the recording.*

When recording a programme from a peripheral connected to EXTERNAL 1, 3 or FRONT, you can not select another TV programme on the screen.
To watch TV programmes again, press the programme number you want to select twice. Then the recording is stopped and your video recorder switches to standby.

If you switch to standby during recording of a programme from a peripheral connected to EXTERNAL 1, 3 or FRONT, the blinking green lamp on the front of your TV indicates that you are still recording. The blinking stops after the recording is finished.

Tips

Care of the screen

Clean the TV with a slightly damp soft cloth. Do not use abrasive solvent as it can damage the TV screen.

Poor Picture

Have you selected the correct TV system?
Is your TV or house aerial located too close to loudspeakers, non-earthed audio equipment or neon lights, etc. ?
Mountains or high buildings can cause double pictures or ghost images.
Sometimes you can improve the picture quality by changing the direction of the outside aerial.
Is the picture or teletext unrecognisable?
Check if you have entered the correct frequency. See Installation, p. 6.
Are brightness and contrast out of adjustment ? Select Recall Pers. Pref. in the Features menu, p. 15.
Sometimes poor picture quality is possible when having activated a S-VHS camera or camcorder connected to the right side of your TV and another peripheral is connected to **EXT1** or **EXT2** at the same time. In this case switch off one of the other peripherals.

No picture

Is the aerial connected properly ? Are the plugs tightly connected in the aerial socket?
Is the aerial cable in good condition and does it have suitable plugs ? Are the connection facilities to a possible second TV in good condition ? If in doubt, consult your dealer.

Remote control

If your TV no longer responds to the remote control, the batteries may be dead.
You can still use the Menu key and the -/+ keys on top of your TV.

Menu

Have you selected the wrong menu ? Press the same key again to exit from the menu.

Wireless Surround speaker system

Are the active surround speaker and the Surround Sound setting in the Setup menu switched to the same transmitting channel?
External RF equipment or people moving around close to the TV may disturb the sound transmission.
When no RF surround sound is possible or when there is too much interference, use the wired back up solution. See Install TV Setup, p. 8.

No solution

Switch your TV off and then on again.
Never attempt to repair a defective TV yourself.
Check with your dealer or call a TV technician.

End of life directives

Your new TV contains materials which can be recycled and reused.
At the end of life specialised companies can dismantle the discarded TV to concentrate the reusable materials and to minimise the amount of materials to be disposed of.
Please ensure you dispose of your old TV according to local regulations.

How to dispose of dead batteries ?

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries dead batteries may not be disposed of with your household waste. Please ensure you dispose of dead batteries according to local regulations.

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Lexicon

100 Hz

100 Hertz provides a superior solution to the problem of picture flicker which is particularly noticeable with larger screen sizes. In a conventional TV, the picture area is scanned 50 times a second (50 Hertz) – a frequency which is still detectable by the human eye in the form of a flickering picture. In 100 Hertz sets, the picture area is scanned at a rate of 100 times per second (100 Hertz). At this frequency, the eye cannot detect flicker, resulting in a clearer picture which is more relaxing to the eye.

Automatic Channel Installation (ACI)

Automatically installs all TV channels in the same order as offered by your cable company, provided of course that the data is transmitted. It also automatically includes programme number and programme name.
With ACI, channel installation is fully automatic, simple and fast.

Child Lock

Feature to prevent children from viewing unwanted channels.

Digital Scan

If you look at a television screen you will see small imperfections in the picture caused by line vibration. Digital Scan (an internal process) removes interline flicker. When combined with 100 Hz, you will see a totally stable image.

DNR

Digital Noise Reduction.
By encoding signals digitally in 100 Hz sets with Digital Scan it is possible to clean up picture noise. This is especially beneficial in poor signal areas and when viewing poor quality video tapes.

Dolby Surround Pro Logic

Literally wraps you in 4-channel sound. It brings your favourite movies to life with all the realism and impact of cinema sound as though you are part of the action.

Easy Link

Digital 'intelligent' ESI bus-system between audio components in HiFi systems and between TV and VCR. (Scart connection required). Turns source selection and control into a one-button operation.

Easy Text

Teletext memory that automatically memorises Teletext pages and gives you instant access to them.

Euroconnector

A 21-pins connector system enabling you to simply connect various types of audio/video and computer equipment.

Menu

On-screen display of functions and facilities in a well-organised survey, which you can select using your remote control.

NTSC

The broadcasting system used in the USA, Japan and parts of South America and Southeast-Asia.

Smart Picture and Sound Controls

Keys on the remote control to select predefined picture and sound settings.

Sleeptimer

Function with which you can set a time period after which the TV should switch itself off to standby.

Picture Freeze

TV mode which allows you to "freeze" a certain image in order to study a specific detail at ease, e.g. to make notes of certain programme information like phone numbers.

Teletext

See also Easy Text
WST: World Standard Teletext.
FLOF: Full Level one Features. System applied by the BBC, RVE.... that provides a fast access to the teletext pages.
TOP: Table of (Teletext) Pages. German system for an easy access to the teletext pages.

Tint (or Hue in NTSC)

TV-function to modify the general colour balance between cool and warm and to adjust it according to your personal preference.

3104 305 4810.1

Table of TV frequencies.
Frequenztabelle der Fernsehsender.
Liste des fréquences des émetteurs.
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Κατάλογος συχνοτήτων πομπών.

EUROPE

CHANNEL	FREQ (MHz)
E2	48 25
E3	55 25
E4	62 25
E5	175 25
E6	182 25
E7	189 25
E8	196 25
E9	203 25
E10	210 25
E11	217 25
E12	224 25
S1	105 25
S2	112 25
S3	119 25
S4	126 25
S5	133 25
S6	140 25
S7	147 25
S8	154 25
S9	161 25
S10	168 25
S11	231 25
S12	238 25
S13	245 25
S14	252 25
S15	259 25
S16	266 25
S17	273 25
S18	280 25
S19	287 25
S20	294 25
H1	303 25
H2	311 25
H3	319 25
H4	327 25
H5	335 25
H6	343 25
H7	351 25
H8	359 25
H9	367 25
H10	375 25
H11	383 25
H12	391 25
H13	399 25
H14	407 25
H15	415 25
H16	423 25
H17	431 25
H18	439 25
H19	447 25
21	471 25
22	479 25
23	487 25
24	495 25
25	503 25
26	511 25
27	519 25
28	527 25
29	535 25
30	543 25
31	551 25
32	559 25
33	567 25
34	575 25
35	583 25
36	591 25
37	599 25
38	607 25
39	615 25
40	623 25
41	631 25
42	639 25
43	647 25
44	655 25
45	663 25
46	671 25
47	679 25
48	687 25
49	695 25
50	703 25
51	711 25
52	719 25
53	727 25
54	735 25
55	743 25
56	751 25
57	759 25
58	767 25
59	775 25
60	783 25
61	791 25
62	799 25
63	807 25
64	815 25
65	823 25
66	831 25
67	839 25
68	839 25
69	855 25

EASTERN EUROPE

CANAL	FREQ (MHz)
R1	49 75
R2	59 25
R3	77 25
R4	85 25
R5	93 25
R 6	175 25
R 7	183 25
R 8	191 25
R 9	199 25
R10	207 25
R11	215 25
R12	223 25
S1	105 25
S2	112 25
S3	119 25
S4	126 25
S5	133 25
S6	140.25
S7	147 25
S8	154 25
S9	161 25
S10	168 25
S11	231 25
S12	238 25
S13	245.25
S14	252 25
S15	259 25
S16	266 25
S17	273 25
S18	280 25
S19	287 25
S20	294 25
H1	303 25
H2	311 25
H3	319 25
H4	327 25
H5	335 25
H6	343 25
H7	351 25
H8	359 25
H9	367 25
H10	375 25
H11	383 25
H12	391 25
H13	399 25
H14	407 25
H15	415 25
H16	423 25
H17	431 25
H18	439 25
H19	447 25
21	471 25
22	479 25
23	487 25
24	495 25
25	503 25
26	511 25
27	519 25
28	527 25
29	535 25
30	543 25
31	551 25
32	559 25
33	567 25
34	575 25
35	583 25
36	591 25
37	599 25
38	607 25
39	615 25
40	623 25
41	631 25
42	639 25
43	647 25
44	655 25
45	663 25
46	671 25
47	679 25
48	687 25
49	695 25
50	703 25
51	711 25
52	719 25
53	727 25
54	735 25
55	743 25
56	751 25
57	759 25
58	767 25
59	775 25
60	783 25
61	791 25
62	799 25
63	807 25
64	815 25
65	823 25
66	831 25
67	839 25
68	839 25
69	855 25

FRANCE

CANAL	FREQ (MHz)
2	55 75
3	60 50
4	63 75
5	176 0
6	184 0
7	192.0
8	200 0
9	208 0
10	216 0
B	116 75
C	128 75
D	140 75
E	159 75
F	164 75
G	176.75
H	188 75
I	200 75
J	212.75
K	224 75
L	236 75
M	248 75
N	260 75
O	272.75
P	284 75
Q	296.75
H1	303 25
H2	311 25
H3	319.25
H4	327 25
H5	335 25
H6	343 25
H7	351.25
H8	359 25
H9	367.25
H10	375 25
H11	383 25
H12	391 25
H13	399.25
H14	407 25
H15	415.25
H16	423 25
H17	431 25
H18	439 25
H19	447 25
21	471 25
22	479 25
23	487 25
24	495 25
25	503.25
26	511 25
27	519 25
28	527 25
29	535 25
30	543 25
31	551 25
32	559 25
33	567 25
34	575 25
35	583 25
36	591 25
37	599 25
38	607 25
39	615 25
40	623 25
41	631 25
42	639 25
43	647 25
44	655 25
45	663 25
46	671 25
47	679 25
48	687 25
49	695 25
50	703 25
51	711 25
52	719 25
53	727 25
54	735 25
55	743 25
56	751 25
57	759 25
58	767 25
59	775 25
60	783 25
61	791.25
62	799 25
63	807 25
64	815 25
65	823.25
66	831.25
67	839.25
68	839.25
69	855 25

ITALY

CANALE	FREQ (MHz)
A	53.75
B	62.25
C	82.25
D	175.25
E	183 75
F	192.25
G	201.25
H	210 25
H1	217 25
S1	105 25
S2	112.25
S3	119.25
S4	126 25
S5	133.25
S6	140 25
S7	147.25
S8	154.25
S9	161 25
S10	168.25
S11	231.25
S12	238 25
S13	245 25
S14	252.25
S15	259.25
S16	266.25
S17	273 25
S18	280 25
S19	287.25
S20	294 25
H1	303.25
H2	311.25
H3	319 25
H4	327.25
H5	335 25
H6	343.25
H7	351.25
H8	359 25
H9	367.25
H10	375.25
H11	383 25
H12	391 25
H13	399.25
H14	407 25
H15	415 25
H16	423.25
H17	431 25
H18	439 25
H19	447.25
21	471.25
22	479 25
23	487.25
24	495 25
25	503 25
26	511.25
27	519 25
28	527.25
29	535.25
30	543 25
31	551 25
32	559 25
33	567 25
34	575.25
35	583.25
36	591.25
37	599.25
38	607.25
39	615.25
40	623.25
41	631.25
42	639.25
43	647.25
44	655.25
45	663.25
46	671 25
47	679.25
48	687.25
49	695.25
50	703.25
51	711 25
52	719 25
53	727.25
54	735.25
55	743.25
56	751 25
57	759.25
58	767.25
59	775.25
60	783.25
61	791.25
62	799 25
63	807.25
64	815.25
65	823.25
66	831 25
67	839.25
68	839 25
69	855.25

GB
The frequencies used by a cable company may differ from the frequencies on the table. Consult your cable company or your dealer for detailed information.

D
In Kabelfernsehanlagen können Abweichungen von den in den Frequenztabellen aufgeführten Frequenzen vorkommen. Bitte wenden Sie sich an Ihren Fachhandler oder Ihre Kabelfernsehgesellschaft, die Ihnen die zutreffenden Frequenzen mitteilt.

F
Les fréquences utilisées par une société de télédistribution peuvent être différentes de celles sur la liste des fréquences. Consultez votre société de télédistribution ou votre revendeur pour des informations plus détaillées.

NL
De frequenties die gebruikt worden door een kabelmaatschappij kunnen verschillen van deze op de tabel. Raadpleeg uw kabelexploitant of uw handelaar voor meer informatie.

I
Le frequenze usate per una società di teledistribuzione possano essere differenti di quelle nella tabella. Consultate la società di teledistribuzione o il vostro rivenditore per informazione specifica.

E
Las frecuencias utilizadas por las empresas de distribución de señal por cable, pueden ser diferentes de las que se encuentran en esta tabla. Consulte con su compañía de distribución de televisión por cable o con su distribuidor para que le proporcionen una información más detallada.

P
As frequências utilizadas por uma sociedade de teledistribuição podem ser diferentes das indicadas na lista de frequências. Consultar a sociedade de teledistribuição ou o vendedor para informações mais detalhadas.

DK
Frekvenser benyttet af kabel operatører kan være afvigende fra disse, kantakt deres kabel operator eller forhandler for nærmere informa-tion.

N
Frekvensene som benyttes pa et kabelnett kan avvike fra de som er oppfort i tabellen. Kontakt ditt kabel-TV selskap eller din forhandler for nærmere opplysninger.

S
Frekvenserna som anvands i kabel-TV-naten kan avvika fran frekvenserna i tabellen. Kontakta ditt kabel-TV-bolag eller din radiohandlare for vidare information.

SF
Kaapeliyhtioden käyttamät taajuudet voivat poiketa taulukossa olevista taajuuksista. Tarkat tiedot saat kaapeliyhtiosta tai myyjältä.

GR
Οι συχνότητες που χρησιμοποιούνται από μια εταιρεία τηλεμετάδοσης είναι δυνατόν να είναι διαφορετικές από αυτές που περιέχει ο κατάλογος. (Συμβουλευθείτε την εταιρεία τηλεμετάδοσης ή τον πωλητή για λεπτομερέστερες πληροφορίες).

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