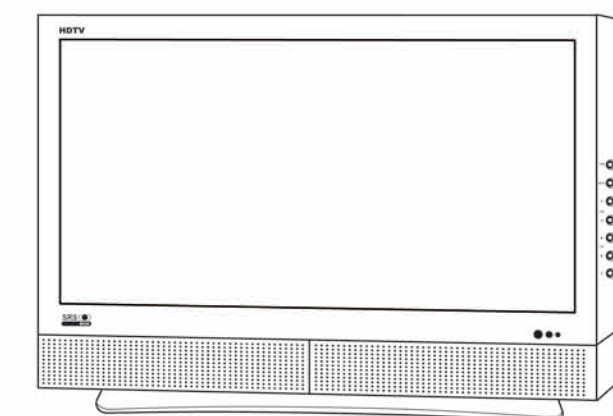


Ready for you:  
[www.service.targa.co.uk](http://www.service.targa.co.uk)

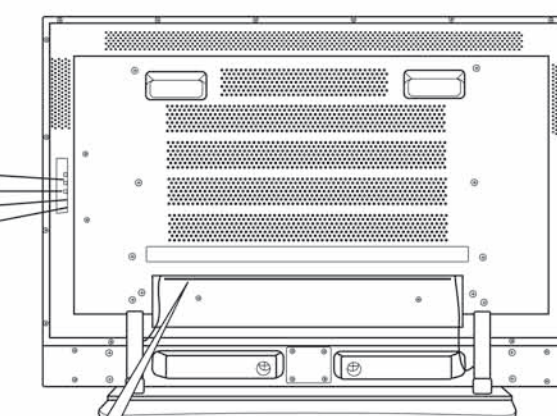
## Targa Visionary LT 4010

### Owner's Manual and Service Information



#### Front

1. Select signal source
2. Open/close menu
3. Volume up
4. Volume down
5. Channel up
6. Channel down
7. Standby on/off

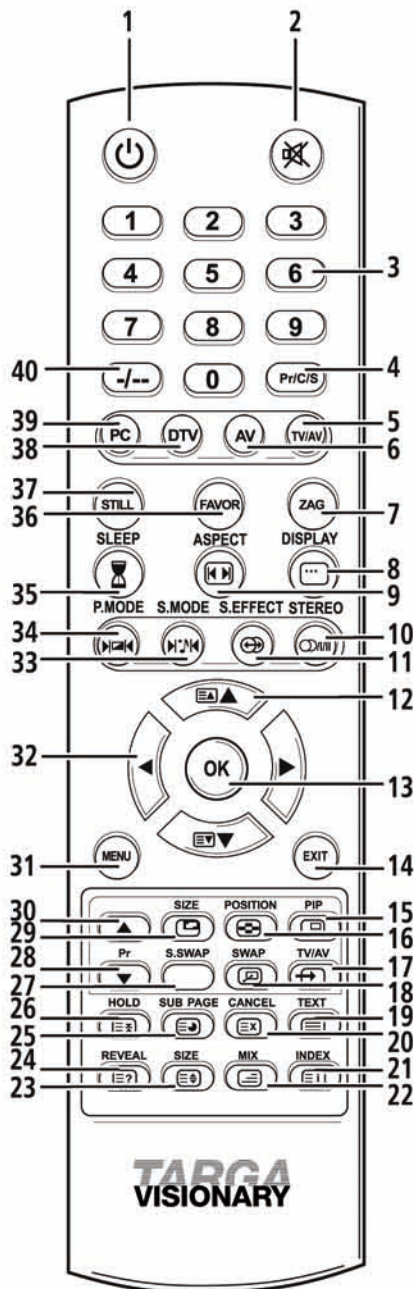


#### Rear

1. AUDIO (AV) input
2. VIDEO (AV) input
3. AV S-VIDEO input
4. Headphone output
5. Output speaker left
6. Analogue RGB input (PC)
7. Audio input (PC)
8. HDMI 1 (DVI) input
9. HDMI 2 input
10. Video input (Y, Pb, Pr/Component 1 & 2)
11. Audio input (Component 1 & 2)
12. Digital audio output (optical)
13. Digital audio output (coaxial)
14. SCART 1 input
15. SCART 2 input
16. Audio output (analogue)
17. Antenna input
18. Power switch
19. Mains inlet
20. Output speaker right

## Remote Control

No. Meaning/Function  
(depending on the current selection, the key may have different functions)



1. Stand-by on/off
2. Mute
3. Key pad
4. Channel selection
5. Source selection
6. Signal source AV
7. Recall last channel
8. Show program information
9. Select picture size
10. Sound settings
11. SRS on/off
12. Select menus/scroll channels
13. Open menu/confirm
14. Exit menus
15. Select picture-in-picture (PIP)
16. Select picture -in-picture position
17. Source selection PIP
18. Toggle between main and PIP
19. Teletext on/off
20. Cancel current function
21. Open index page
22. Transparent text background
23. Change letter size
24. Show hidden text
25. Open sub page
26. Stop search
27. Toggle sound between main and PIP
28. Scroll channel backwards
29. Set PIP size
30. Scroll channel forward
31. Open/close menu
32. Select menu/volume up/down
33. Select preset sound
34. Select preset picture
35. Set sleep timer
36. Select favourite channel
37. Freeze image
38. Signal source Component
39. Signal source PC
40. Single digit/multi digit entries

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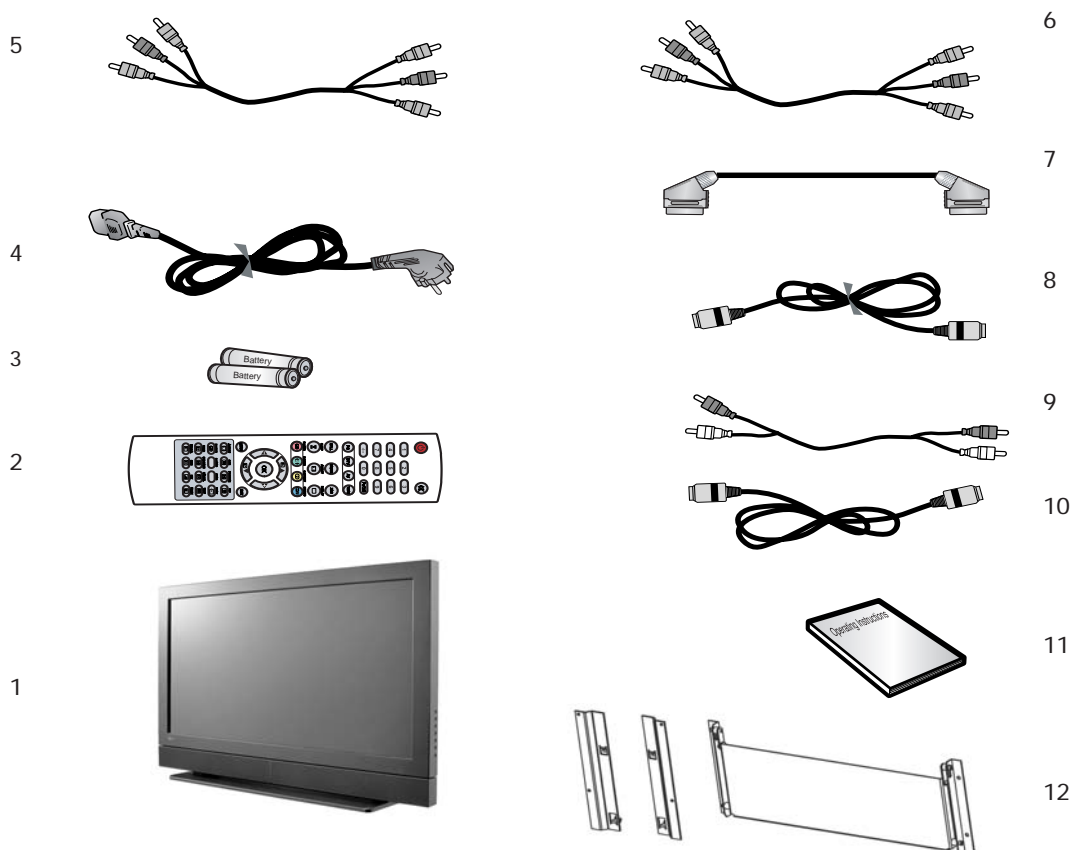
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# Unpacking and Setup

## Scope of Supply

Please check, that the delivery is complete.



- 1 Unit
- 2 Remote control
- 3 Batteries
- 4 Mains cable
- 5 AV cable (red, white, yellow)
- 6 Component cable (green, blue , red)
- 7 SCART cable
- 8 HDMI cable
- 9 Stereo audio Adapter cable (red, white)
- 10 Antenna cable
- 11 Owner's Manual with service information
- 12 Wall mount

## Safety

### *General*

- Read the following instructions carefully.
- Keep the manual with the instructions carefully and pass it on, if you sell the unit or give it away otherwise.
- Observe all warnings exactly and proceed exactly as described in the instructions.
- Clean the unit with a dry cloth only.
- Ensure that the ventilation openings are not covered.
- Only connect the unit as described in the instructions.
- Use the accessories specified by the manufacturer only.
- To completely disconnect the unit from the electric power, unplug the power cable.
- Refer all servicing to qualified service personnel only. Servicing is required if the unit has been damaged, e.g. if the mains adapter or power plug are damaged, if liquid or objects entered the unit, if it was subject to rain or any other kind of humidity, if it has been dropped or if it does not operate properly.
- Make sure the used mains outlet is easily accessible. Lay the power cable in a manner that does not obstruct anyone.
- Do not use any extension cables.
- Disconnect the unit from the mains supply during thunderstorms by removing the plug from the wall outlet. Do this also, if you will not use the unit for a longer period of time.
- Do not use the unit near water.
- To prevent electric shock or fire make sure the unit is not subject to rain or humidity.
- Do not expose the unit to dripping or splashing water. Do not place any heavy objects or container with liquids (beverages, vases etc.) on the unit. Avoid extreme changes of temperature to prevent humidity condensing in the unit.
- Do not place any open fire (candles etc.) on the unit.
- If you use an outdoor antenna, make sure to ground the antenna to provide protection against voltage surges and build up of static charges.
- If you do not operate the unit in the Federal Republic of Germany, make sure to observe the local laws and regulations applicable in your country.



### *Location*

- Avoid humid and/or dusty environments.
- Place the unit on level, non-vibrating surfaces.
- Do not place the unit close to the outlets of air conditioners or heaters.
- Make sure the unit is easily accessible from all sides.
- Only use suitable stands, supports, carts or tables that ensure the unit does not tip over. If you place the unit on a cart, move it with caution to prevent injuries or damage resulting from tip-over.
- Do not install the unit close to heat sources such as radiators, stoves or other devices (including amplifiers) radiating heat. Avoid exposure to direct sunlight.
- Do not operate the unit close to magnetic fields (e.g. loudspeakers).
- Make sure to provide sufficient ventilation. (Do not place the unit in racks, on thick carpets, on a bed or any other place where the ventilation openings could be covered and leave a space of at least 10 cm to all sides of the unit.)

### *Children*

- Children: electric devices are not for children. Never leave children to play with electric devices without supervision. Children are not always able to judge possible dangers correctly. Keep the packaging material away from children, there is a danger of suffocation.
- Small parts can be perilous if swallowed. Keep small parts away from children. If a small part was swallowed, immediately contact a doctor.

### *Loudspeaker/headphone*

- Never operate the loudspeakers or your headphone at high volume over long periods of time. Otherwise you imperil your hearing and disturb your environment.
- Never operate the loudspeakers or the headphone in hazardous situations, e.g. in traffic or when working with machines. Any distraction by noise reduces your attention and may lead to accidents.
- Even if your headphone is designed to allow hearing of environmental noise, never turn the volume so high that you cannot hear what happens around you.
- If you want to use a headphone on the line out connector, use a headphone with an impedance of 30 - 50 Ohm.

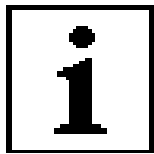
### *Batteries*

- Mind the polarity of the batteries (+/-) when inserting. Use only similar batteries (manufacturer, carbon, alkaline, old, new) together.

- Remove the batteries, if you will not use the unit for a longer period.



This symbol indicates additional safety instructions in the text.



This symbol indicates instructions to facilitate the operation.

### *The Best Distance*



The distance when watching programs on a television of this size should be approximately 2.2 to 2.7 metres. If the distance is too large or too small, this may lead to strain of your eyes. This may impair your health.

### *Background Light/Reflections*

When watching television at night, the television should not be the only source of light in the room. The big difference of brightness between the screen and the background causes continuous dark-light adaptation of the eyes. This leads to strain of the eyes and may cause headaches.

It is better, if a dim, indirect light lights-up the environment of the television.

For the same reasons, make sure that no reflections on the screen impair the picture.

### *The Best Alignment*



Choose a location that allows you to sit in a relaxed position. Otherwise, tension and further impairments to your health may be the consequence.

### **Intended purpose**

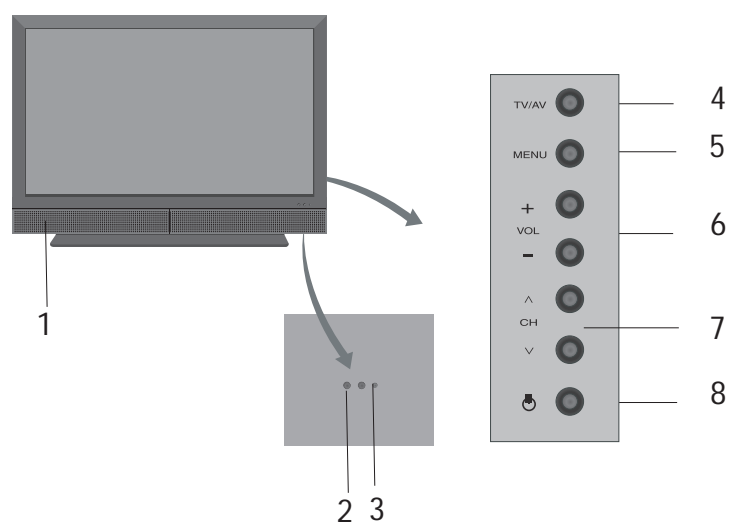
This LCD television set is a unit for consumer electronics. It may only be used for private, not industrial or other commercial purposes. Only use connecting cables and external devices, that correspond to the present unit with respect to electromagnetic compatibility and shielding. This unit fulfils all relevant rules and standards with respect to the EEC conformity. Any change of the unit not authorized by the manufacturer may violate these rules or standards. Use the accessories specified by the manufacturer only.



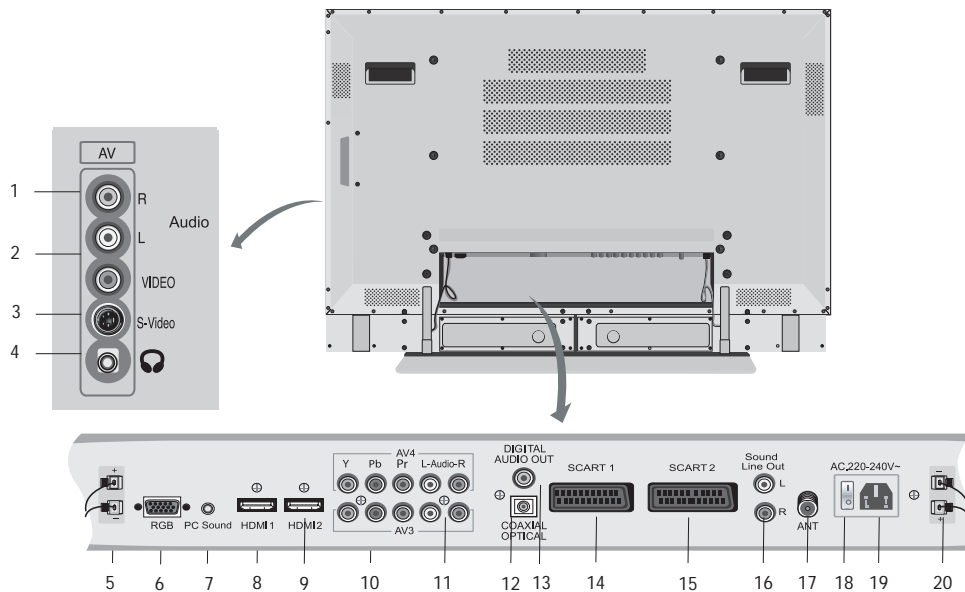
## Connections and Start of Operation

### Overview Controls

*Front*



- 1 Loudspeaker
- 2 Sensor for remote control
- 3 On/Off indicator
- 4 Select source
- 5 Select menu
- 6 Volume
- 7 Select channel
- 8 Stand-by switch ON/OFF

*Rear*

- 1 Input audio (left/right)
- 2 VIDEO input
- 3 S-VIDEO input
- 4 Headphone output
- 5 Loudspeaker right (4 Ohm/10 Watt)
- 6 Analogue RGB input (PC)
- 7 Audio input (PC)
- 8 HDMI 1 (DVI) input
- 9 HDMI 2 input
- 10 Video input (Y, Pb, Pr / Component 1/2)
- 11 Audio input (Component 1/2)
- 12 Digital audio output (optical)
- 13 Digital audio output (coaxial optical)
- 14 SCART 1 input
- 15 SCART 2 input
- 16 Audio output (analogue)
- 17 Antenna input
- 18 Power switch
- 19 Mains inlet
- 20 Loudspeaker left (4 Ohm/10 Watt)



## Access to the Connections

The connectors are on the rear of the unit.

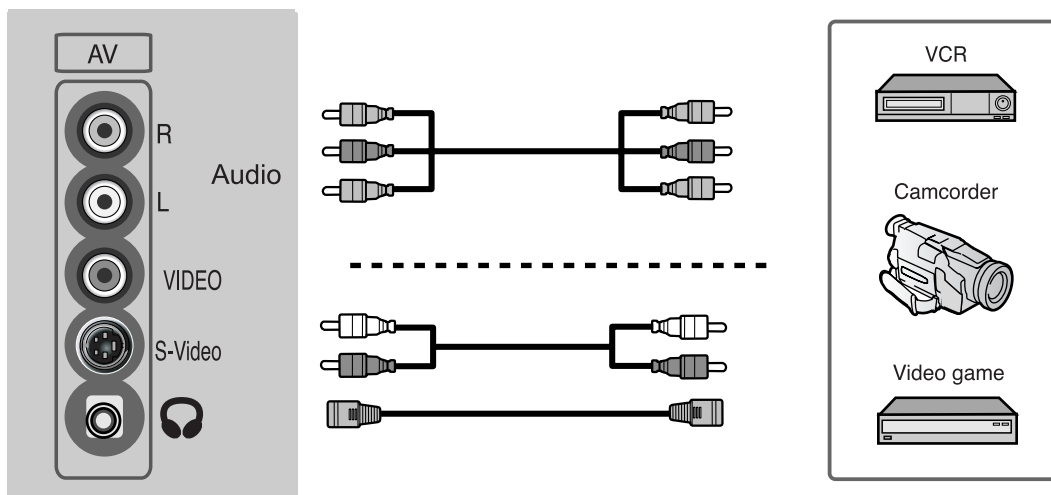
The unit is equipped with different inputs to allow the best possible signal transmission from the respective source. If your signal source (e.g. DVD-unit, satellite receiver etc.) is equipped with a digital output, you should use this output so that no information is lost during transfer.

You can use several input connectors at the same time. For information on how to select a device for display, refer to chapter: "Select source" on page 46.

## Connecting to AV

### Composite Video or S-Video

Use this input to transfer images of external devices such as cameras, video games or video recorders analogue to the TV set. S-Video is also an analogue format transmitting brightness and colour information separately. For this a cable with Hosiden plugs is used.



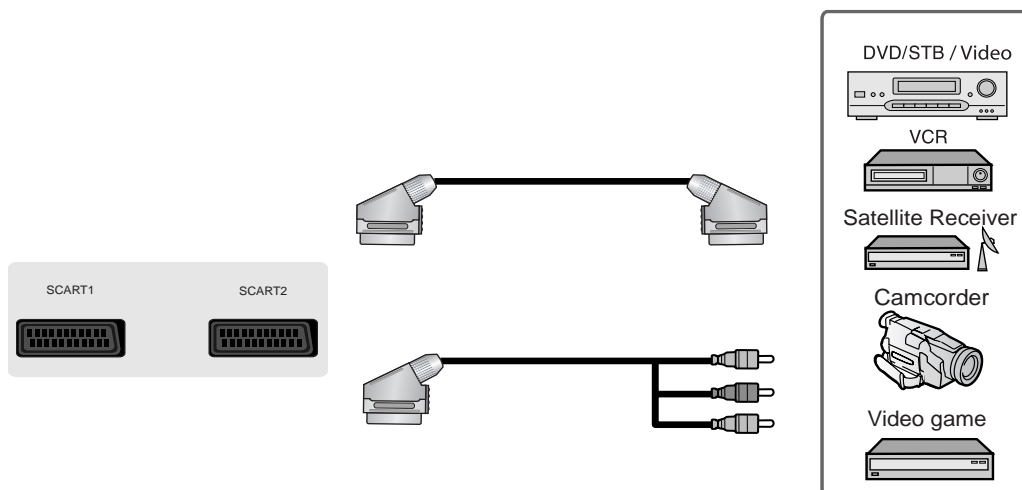
1. Plug the AV-cable according to the colours (red/white/yellow) into the socket [VIDEO/AUDIO] and into the output sockets of the external device.

Or

1. Plug the S-Video cable into the socket [S-VIDEO] and the output socket of the external device.
2. Plug the audio cable into the socket [AUDIO R/L] and connect them with the output sockets of the external device.  
If your external device only provides a Mono-output, use the left channel [MONO] for the audio input.

## Connecting to SCART

SCART is a standard for plugs to transmit analogue signals (RGB, S-Video, Video). Depending on the external device you can use a SCART cable with 2 SCART plugs or with 1 SCART plug and chinch plugs (Audio R/L, Video) (not included in the delivery).



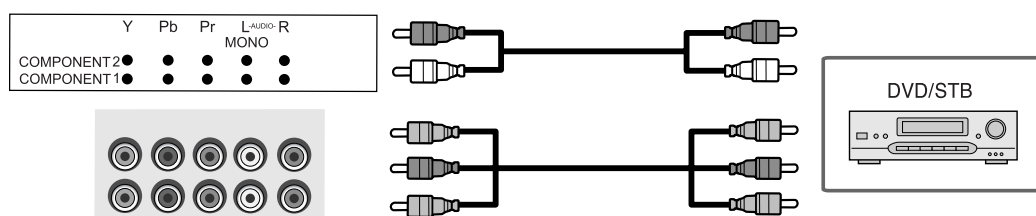
1. Plug the SCART cable into the socket [SCART 1] on the TV set.
2. Plug the other end of the SCART cable into the output socket on the external device.

If your external device provides RGB, S-Video and Video (CVBS), use the SCART 1 socket. If your external device provides only S-Video and Video (CVBS), use the SCART 2 socket. You can use both sockets parallel.

## Connecting to Component Video

Component video or Y, Pb, Pr is an analogue connection that transmits images of signal sources such as DVD-devices in a very good quality. For this the brightness information is transmitted on one line and the colour information on the other two. If you use this connection, you must transmit the sound separately. For this, use the audio sockets on the respective component input.

Y, Pb, PR are also suitable to transmit progressive scan or HDTV signals to the TV set.



1. Plug the component cable according to the colours (green, red, blue) into the sockets [Y], [Pb] and [Pr] of the input COMPONENT 1 or COMPONENT 2 and the output sockets of the external device.
2. Plug the audio cable into the socket [AUDIO R/L] of the Component input used and connect them with the output sockets of the external device.

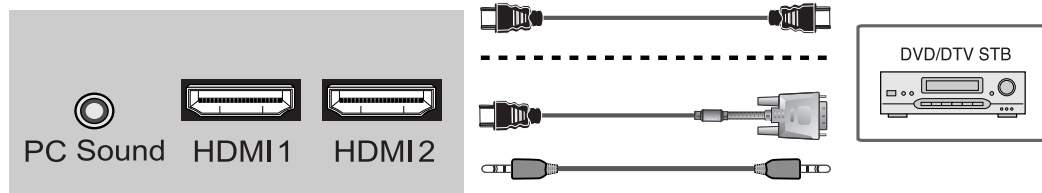
If your external device only provides a Mono-output, use the left channel [MONO] for the audio input.

For information on the supported signals refer to chapter "Technical specifications" on page 55.

## Connecting to HDMI

HDMI (High Definition Multimedia Interface) is an input for digital image and sound signals. This input also transmits the multi-channel sound for 5.1 audio systems to the digital audio output.

You can either use a HDMI cable or a DVI-HDMI adapter cable together with an audio cable. The adapter cable is not included in the delivery.



1. Plug the HDMI cable into the socket [HDMI 1] or [HDMI 2] and the output socket of the external device.

Or

1. Plug the HDMI/DVI cable into the socket [HDMI 1] and the output socket of the external device.
2. Plug the audio cable into the socket [PC SOUND] and connect it with the output sockets of the external device. The audio cable is not included in the delivery.
3. Set the sound source to PC. See chapter "Sound Settings" on page 27.

You can use both [HDMI] connections parallel.

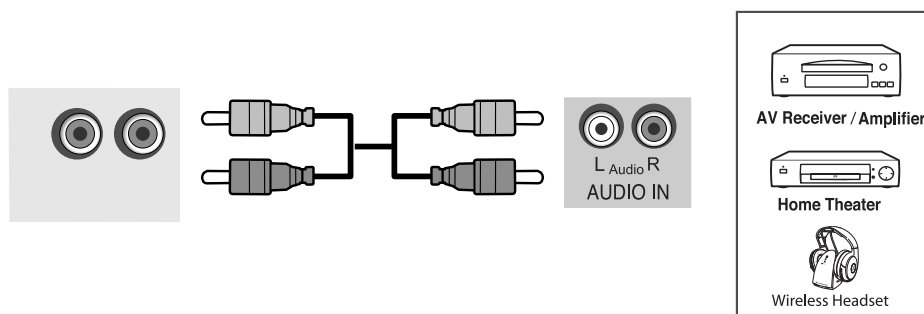


To transmit the multi-channel information 5.1 to the digital audio output, your external device must provide the function "Bitstream" or "RAW". In this case the sound is not played by the loudspeakers of the television set.

If your external device does not provide this function, use the setting "PCM" or "Auto" to provide a stereo signal to the digital output and activate the sound of the loudspeakers on the television set.

## Connecting to Audio Output

Use this output to transmit analogue sound signals. Use this output to connect a home theatre system, wireless headphones or a suitable AV receiver/Stereo amplifier.



1. Plug the audio cable into the socket [SOUND LINE OUT L/R] and the input socket of the external device.

If you are using this output, turn the volume of the loudspeaker on the TV set down and adjust the volume using the external device.

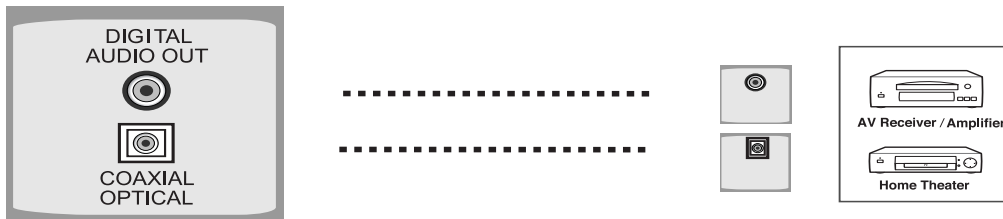
### *Notes on Handling Headphones*

Never operate the loudspeakers or your headphone at high volume over long periods of time. Otherwise you imperil your hearing and disturb your environment. Never operate the loudspeakers or the headphone in hazardous situations, e.g. in traffic or when working with machines. Any distraction by noise reduces your attention and may lead to accidents.

Even if your headphone is designed to allow hearing of environmental noise, never turn the volume so high that you cannot hear what happens around you. Only use headphones with an impedance of 30 - 50 ohm. The use of headphones with other impedances may permit hazardous sound level pressure.

## Connecting to the Optical/Coaxial Digital Output

Use these outputs to transmit digital sound signals. Use these outputs to connect a suitable home theatre system or a suitable AV receiver/Stereo amplifier.



1. Plug the optical cable (not included in the delivery) into the socket [OPTICAL] and into the input socket of the external device.
1. Plug the coaxial cable (not included in the delivery) into the socket [COAXIAL] and into the input socket of the external device.

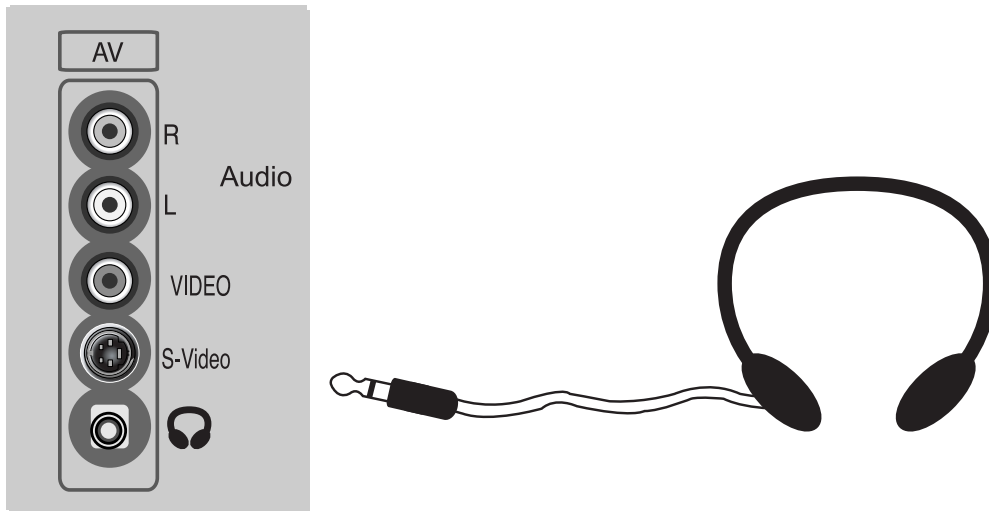
You may also use only one of the outputs.

If you are using this output, turn the volume of the loudspeaker on the TV set down and adjust the volume using the external device.



## Use of a Headphone with Cable

The output for the headphone is on the right side of the unit. If you connect a headphone to this output, the sound of the loudspeakers will be switched off.



1. Plug the cable of the headphone into the 3.5 mm jack socket of the TV set.

In some cases you need to use an adapter.

Headphone and adapter are not included in the delivery.

### *Notes on Handling Headphones*

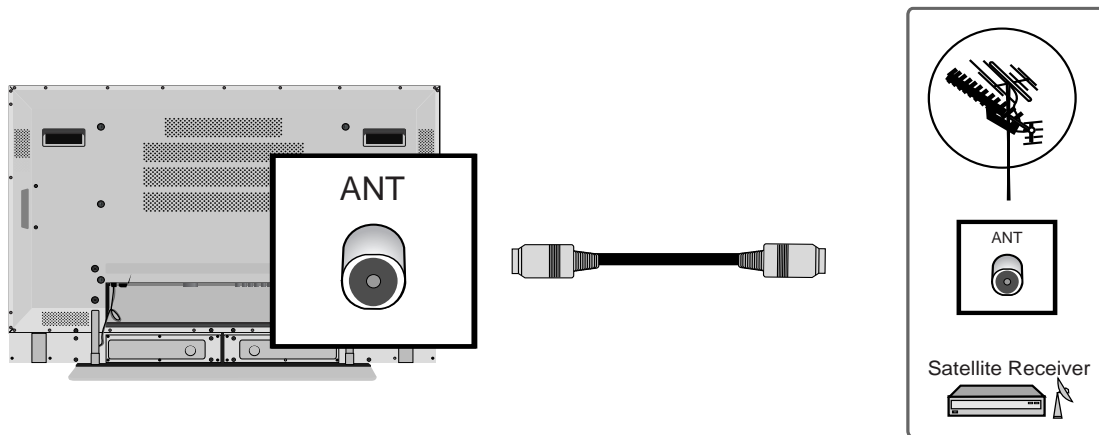
Never operate the loudspeakers or your headphone at high volume over long periods of time. Otherwise you imperil your hearing and disturb your environment. Never operate the loudspeakers or the headphone in hazardous situations, e.g. in traffic or when working with machines. Any distraction by noise reduces your attention and may lead to accidents.

Even if your headphone is designed to allow hearing of environmental noise, never turn the volume so high that you cannot hear what happens around you. Only use headphones with an impedance of 30 - 50 ohm. The use of headphones with other impedances may permit hazardous sound level pressure.

## Connection to Roof Aerial



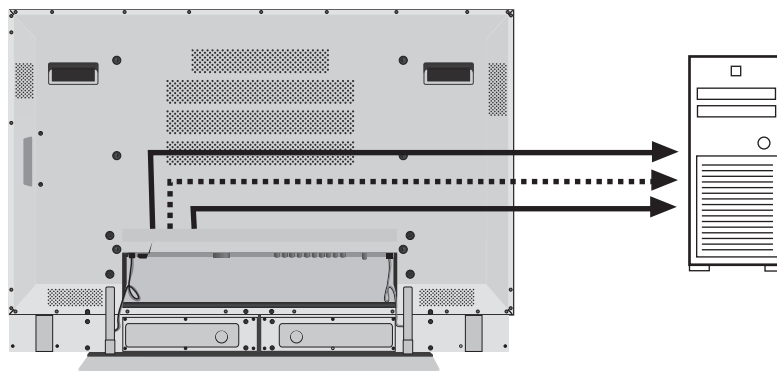
Ensure that the roof aerial is properly installed and grounded.  
If the roof aerial is not grounded properly, the unit may be damaged and can be charged with electro static charges.



1. Plug the cable for the roof aerial into the socket [ANT].
2. Connect the other end of the coaxial cable with the output socket of the receiver or the antenna system.

## Connecting to a Computer

You can use the television set as a monitor for the computer. This is possible parallel to television operation. Use a 15-pin D-Sub cable or a DVI/HDMI cable to connect the television set to the computer.



1. Plug the cable (VGA or HDMI) into the output socket of the graphic board.
2. Plug the other end of the cable into the corresponding socket ([RGB], [HDMI 1] or [HDMI 2]) on the television set.
3. Plug the audio cable with the jack plug into the socket [PC SOUND] and the output socket of the sound board.
4. Set the sound source to PC. See chapter “Sound Settings” on page 27.

In some cases you need to use an adapter. The adapter is not included in the delivery.



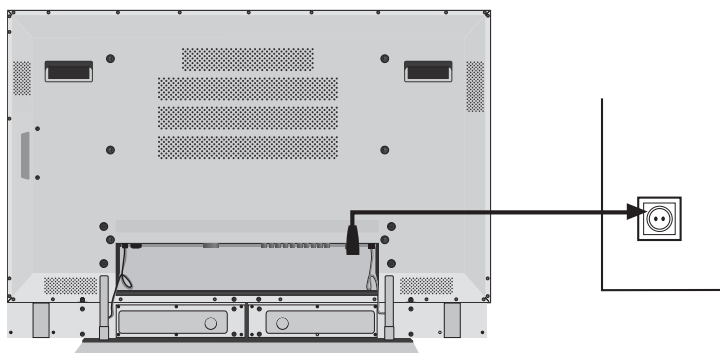
In case the television set does not receive any signal, adapt the output of the computer. For information on setting up the computer, refer to the manual of the computer. The optimum resolution for the television set is 1360 x 768 Pixel

Adjust the settings of the computer image according to the settings of the television image. See “Settings” on page 21.

## Connecting several Devices

You can use the described connections and external devices parallel. For information on how to select a device for display, refer to chapter: “Select source” on page 46 and “Select Signal Source for PIP” on page 47.

## Connecting Mains Cable



1. Plug one end of the mains cable into the mains socket on the television set.

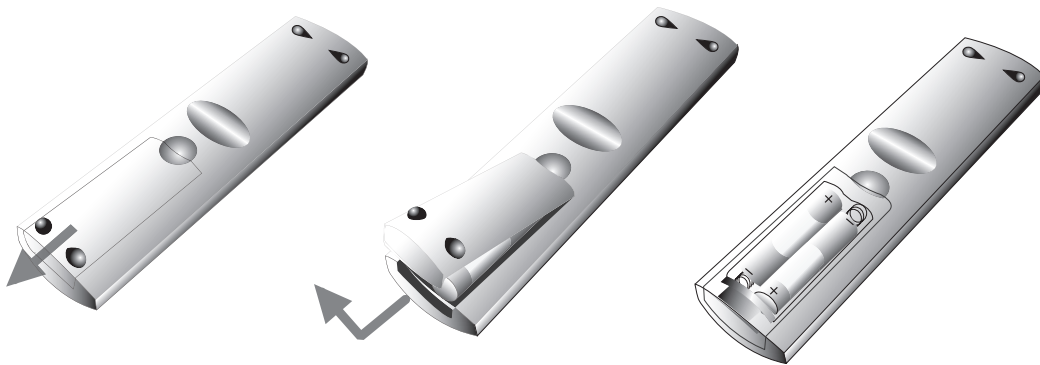
2. Plug the other end of the power cable into a grounded wall outlet.

## Inserting the Batteries

Two Type R 03 1.5 V Size AAA batteries are included in the delivery to operate the remote control.



When inserting the batteries, ensure the polarity is matched correctly (+ and - marking on the battery and on the remote control).



1. Remove the cover on the back of the remote control and insert the batteries.
2. Close the lid.

### *Notes on Handling Batteries*

When used properly batteries are a safe and reliable source of energy. However, when misused or not used according to the intention, they may spill. In extreme cases, there is a danger of explosion or fire. Therefore please understand that the manufacturer will not be liable in the case of misuse or improper use. For detailed information on how to handle the batteries, please contact the manufacturer concerned.



Never try to recharge non-rechargeable batteries.



Disposal of batteries is clearly regulated by legal acts. Consumer quantities of batteries must be taken back by the dealer or by local public collectors. Never discharge batteries together with common waste. Make use of the free public collection system! Protect your environment. Return used batteries.






## Settings

### Switching On

1. Press the mains switch on the back of the unit.

This switches the unit on and it can be operated using the remote control.

2. Press [




If it is not explicitly stated otherwise, it will be assumed that the unit and the TV set are switched on and will be operated by the remote control.



By default, the unit is set to the English language. For information on how to change the on-screen language later, refer to: “Set Screen Language” on page 31.

### Switching Off

#### *Stand-by*

1. Press [



Please note that the unit also consumes a little power when in stand-by mode.

#### *Switch Stand by Off*

1. Press the mains switch on the back of the unit.














Now the unit is switched off completely and does not consume any power.

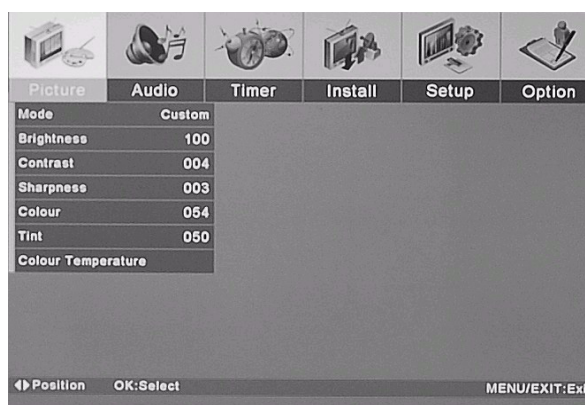
## Setting up for Operation

You can adjust various settings of the unit to adapt it to your requirements.

### Open, Select and Close Menus

The settings of the unit are accessible via menus. To navigate in the menus proceed as follows:

1. Press [  ].  
The main menu opens. The submenu selected last will be displayed.
2. To return to the main menu, press [  ] several times.
3. Press [  ] or [  ] to select the desired menu.  
Or
4. Press [  ] or [  ] to set the desired sub menu.
5. Press [  ] or [  ] to set the desired sub menu.
6. Press [  ] to move one menu level up.
7. Press [  ] or [  ] to select the desired setting.
8. Press [  ] to activate the desired setting.
9. Press [  ] to save the settings and to close the menu.




## Tuning

### Starting Automatic Tuning TV Stations

Use this feature to start automatic tuning. The TV channels will be tuned and stored. Later you can rearrange the sorting of the TV channels as you wish.



You only need to tune the TV channels, if the device is connected to a roof aerial. If you use a satellite receiver, a decoder or a similar device, the signal of this device will be shown. Press [  ] and select the desired device.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select INSTALLATION.
3. Press [↵] or [↶] and select AUTO TUNING.
4. Press [OK].
5. Select the country where you want to operate the unit.
6. Press [↵] or [↶] to select the desired setting.
7. Press [OK].
8. Press [←] to select YES in the warning window.
9. Press [OK] to start tuning.



Press [MENU] to interrupt tuning.

The tuning starts and the TV channels are listed.

10. After tuning is completed a menu in which you can make the settings opens.



You can also make the settings later. Note that TV must be selected as a signal source for this menu to be active.

If you have interrupted the tuning the order of the stations is set automatically. You can change the order manually later.

## Change channel

Use this function to set the channel for individual stations.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select INSTALLATION.
3. Press [EA▲] or [EV▼], and select PROGRAMME.
4. Press [←] or [→] and select the desired channel.
5. Adjust the settings in the other menus.
6. Press [EXIT] to save the settings.



## Set Colour System

Use this function to set the television signal to your national television standard.



These settings are made automatically by the automatic tuning function. You should only change the settings described in this section, if you are familiar with the reception of television signals.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select INSTALLATION.
3. Press [EA▲] or [EV▼], and select COLOUR.
4. Press [OK].
5. Press [EA▲] or [EV▼] to select the desired setting.
6. Press [OK] to confirm the selection.
7. Press [EXIT] to save the settings.



The following settings are available:

Auto, PAL, SECAM, NTSC

The automatic tuning function sets the unit automatically to the received signal. This is why the menu item AUTO cannot be selected.

## Set System

Use this function to set the sound signal to your national television standard.



These settings are made automatically by the automatic tuning function. You should only change the settings described in this section, if you are familiar with the reception of television signals.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select INSTALLATION.
3. Press [EA▶] or [EV▼], and select SYSTEM.
4. Press [OK].
5. Press [EA▶] or [EV▼] to select the desired setting.
6. Press [OK] to confirm the selection.
7. Press [ENT] to save the settings.



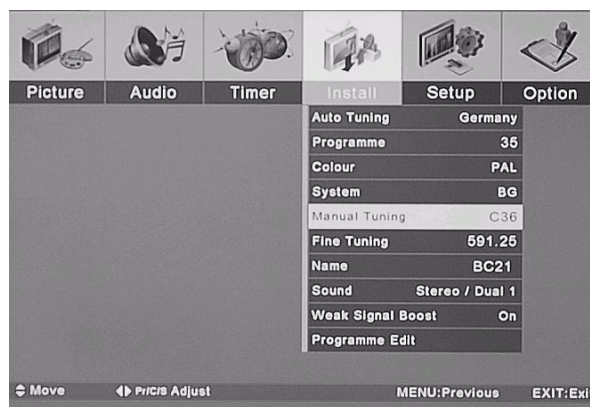
The following settings are available:

BG, DK, I, L, L', M

## Manual Tuning

Use this function to tune the channels manually.

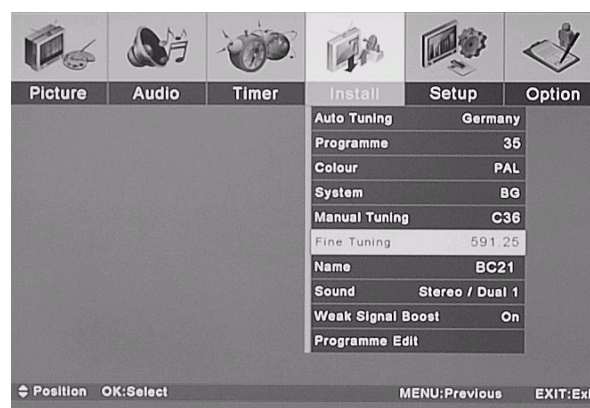
1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select INSTALLATION.
3. Press [◀] or [▶], and select PROGRAMME.
4. Press [◀] or [▶] and select the desired channel.
5. Press [EJ▲] or [EV▼] and select MANUAL TUNING.
6. Press [◀] or [▶] and select the desired channel.
7. Press [P/C/S] to select C for standard channels or S for cable channels.
8. Adjust the settings in the other menus.
9. Press [EXIT] to save the settings.



## Fine Tuning

Use this function to adjust the tuning of the individual channels for a clearer picture.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select INSTALLATION.
3. Press [EJ▲] or [EV▼], and select PROGRAMME.
4. Press [◀] or [▶] and select the desired channel.
5. Press [EJ▲] or [EV▼], and select FINE TUNING.
6. Press [◀] or [▶] and adjust the fine tuning.
7. Press [EXIT] to save the settings.





## Change Channel Name

The names of the channels are programmed into the receiver. You can change these names manually.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select INSTALLATION.
3. Press [EA▶] or [EV▼], and select PROGRAMME.
4. Press [◀] or [▶] and select the desired channel.
5. Press [EA▶] or [EV▼], and select NAME.
6. Press [OK].
7. Press [EA▶] or [EV▼] to select the desired letter.
8. Press [◀] or [▶] to move to the next letter.
9. Press [EXIT] to save the settings.



## Sound Settings

The unit can play back stereo sounds.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select INSTALLATION.  
Press [EA▶] or [EV▼], and select SOUND.
3. Press [OK].
4. Press [EA▶] or [EV▼] to select the desired setting.



5. Press [EXIT] to save the settings.



This setting is only available if the tuner is receiving a signal from the roof aerial or the cable. If you have connected an external device, set the language on this device.

The following settings are available:

- Stereo/Dual 1: National language stereo
- Mono/Dual 1: National language mono
- Stereo/Dual 2: Foreign language of the program
- Stereo/Dual 12: Both languages at the same time

## Improve Signal Quality

Use this function to improve poor signal quality.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select INSTALLATION.
3. Press [EA▲] or [EV▼], and select WEAK SIGNAL BOOST.
4. Press [OK].
5. Press [EA▲] or [EV▼] to select the desired setting.
6. Press [EXIT] to save the settings.



The following settings are available :

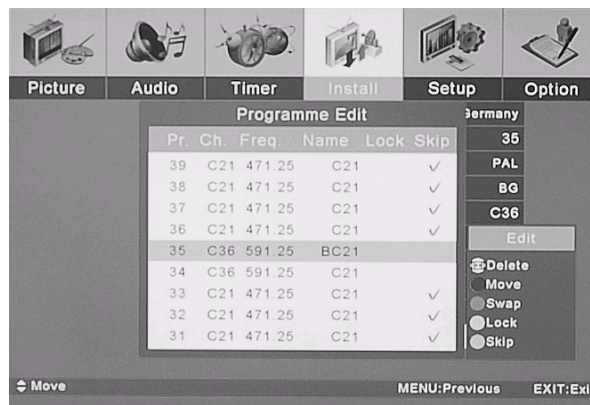
On/Off



## Set Channel

Use this function to set the settings for individual channels.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select INSTALLATION.
3. Press [EJ▲] or [EV▼], and select PROGRAMME EDIT.
4. Adjust the settings.
5. Press [ENT] to save the settings.



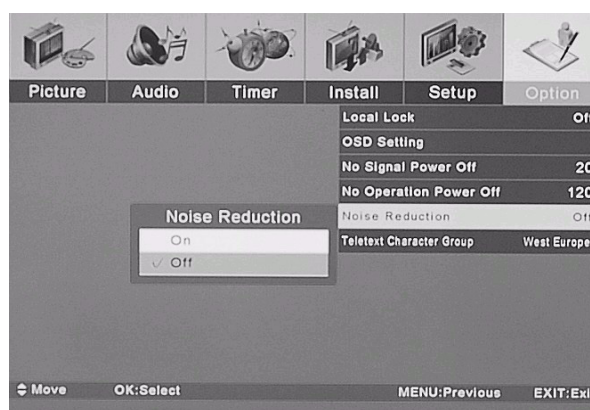
The following settings are available:

- Delete: Delete a channel.
- Move: Move a channel up or down in the list of channels.
- Swap: Swap selected channels.
- Lock: Lock channel
- Skip: Skip channels when scrolling

## Reduce Noise

Use this function to reduce picture noise.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select OPTION.
3. Press [EJ▲] or [EV▼], and select NOISE REDUCTION.
4. Press [OK].
5. Press [EJ▲] or [EV▼] to select the desired setting.
6. Press [ENT] to save the settings.



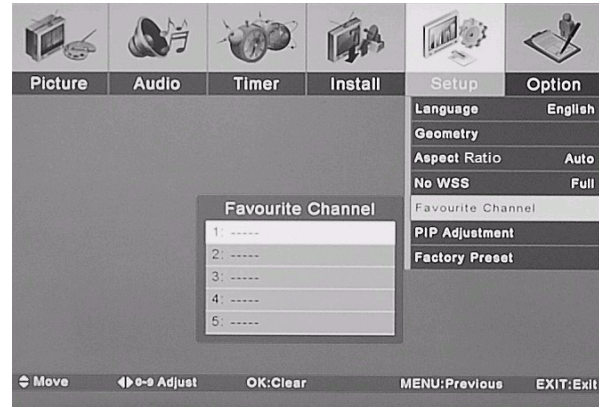
The following settings are available :

- On/Off

## Channel Groups

Use this function to store channels in the list of favourites with access by [FAVOR].

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select SETUP.
3. Press [EJ▲] or [EV▼], and select FAVOURITE CHANNEL.
4. Press [OK].
5. Press [EJ▲] or [EV▼] to select the desired line.
6. Press [←] or [→] to select the desired channel.
7. Press [EXIT] to save the settings.



To delete a wrong entry press [OK].

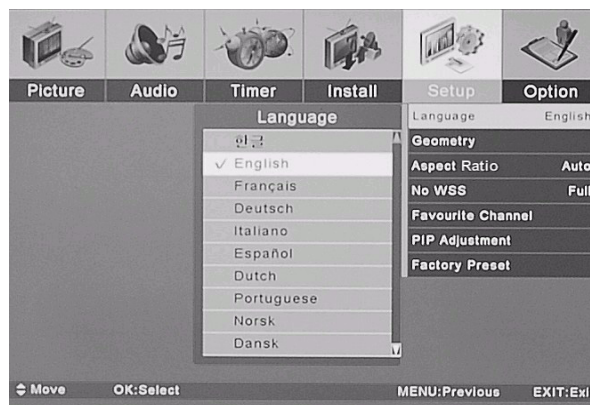
### Watch Favourite Channel

Press [FAVOR] to scroll through your favourite channels.

## Set Screen Language

By default, the unit is set to the language of your country. The screen display text can be displayed in several languages.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select SETUP.
3. Press [E] or [V] and select LANGUAGE.
4. Press [OK].
5. Press [E] or [V] to select the desired setting.
6. Press [EXIT] to save the settings.
7. To return to the main menu, press [MENU] several times.

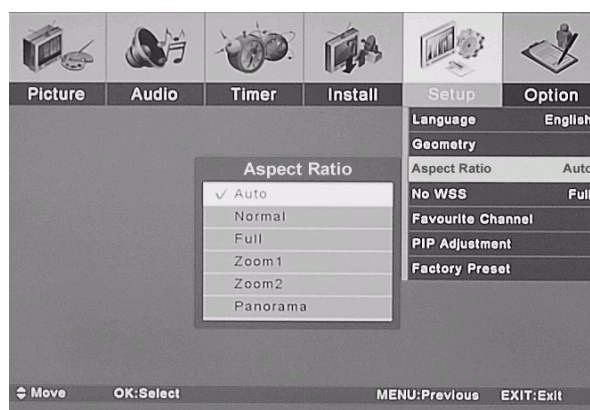


## Set Aspect Ratio

### Set Wide Screen Format

Use this function to display programs broadcast in wide screen format.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select SETUP.
3. Press [E] or [V] and select ASPECT RATIO.
4. Press [OK].
5. Press [E] or [V] to select the desired setting.
6. Press [EXIT] to save the settings.



The following settings are available:

- Auto:** Sets the display automatically to the broadcast format.
- Normal:** The format 16:09 is suppressed. The format 4:3 is not adapted a black area is displayed on the left and the right.
- Full:** The format 16:09 is displayed as broadcast. The format 4:3 is horizontally spread.

- Zoom1: The format 16:09 is vertically spread.
- Zoom2: Like zoom1 but the whole picture is moved upwards so that text at the bottom of the display becomes visible.
- Panorama: The format 16:09 is displayed as broadcast. The format 4:3 is horizontally spread. In this the outer areas of the picture are modified more than the centre of the picture.



You can scroll through the settings while watching. For this, press [ASPECT] [INFO].

### Display if no Wide Screen Signal is Received

Most programs are broadcast together with a signal describing the format of the picture. With this function you can set the way the picture is displayed, if no such signal is received. This function is only available, if you have set the picture format to auto.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [LEFT] or [RIGHT] and select SETUP.
3. Press [EA] or [EV] and select NO WSS.
4. Press [OK].
5. Press [EA] or [EV] to select the desired setting.
6. Press [EXIT] to save the settings.



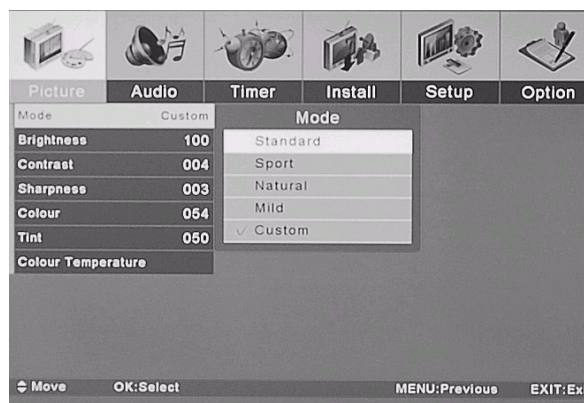
The following settings are available :

- Normal: The format 04:03 is not adapted a black area is displayed on the left and the right.
- Full: The format 04:03 is horizontally spread.
- Panorama: The format 04:03 is horizontally spread. In this the outer areas of the picture are modified more than the centre of the picture.

## Set Picture Mode

Use this function to adapt the picture optimally to the content. Use this function to adapt the picture optimally to the content. You can also adapt the sound modes for these settings. See “Adjust Individual Audio Frequencies” on page 35.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→], and select PICTURE.
3. Press [EPA] or [EV], and select MODE.
4. Press [OK].
5. Press [←] or [→] to select the desired setting.
6. Press [EXIT] to save the settings.



The following settings are available :

- Standard: Setting for a bright background of the television set.
- Sport: Setting for a clearer picture.
- Natural: Setting for films and music.
- Mild: Setting for a dark background of the television set.
- Custom: Select this mode if you want to adjust the settings individually. See “Additional Picture Settings” on page 34.

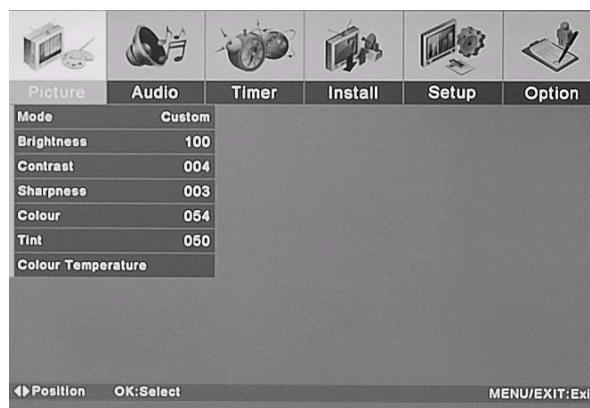
You can also select the picture mode manually. For this, press [PMODE].

You can also adjust the picture mode for the picture-in-picture. For this press [PMPMODE].

### Additional Picture Settings

Use these functions to adjust the picture settings individually, if you have selected the picture mode Custom.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶], and select PICTURE.
3. Press [EA▶] or [EV▶] to select the desired menu.
4. Press [OK] to open the desired menu.
5. Press [◀] or [▶] to select the desired setting.
6. Press [EXIT] to save the settings. The settings will be saved in the picture mode Custom.



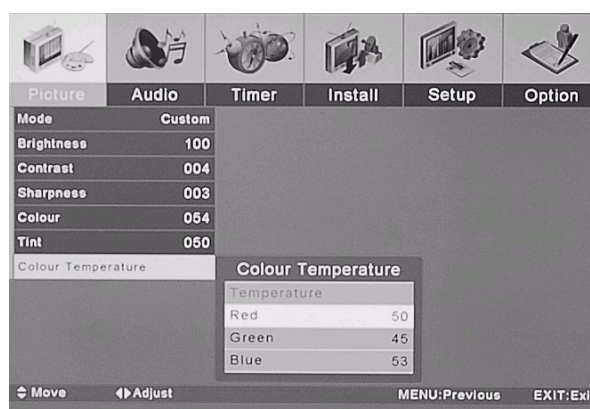
The following settings are available:

Brightness:	Brightness of the picture
Contrast:	Contrast of the picture
Sharpness:	Sharpens the edges of the objects
Colour:	Adjusts the intensity of the colours
Tint:	Sets the hue

### Set Individual Colour Channels

Use this function to adjust the intensity of the individual colour channels.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶], and select PICTURE.
3. Press [EA▶] or [EV▶] and select COLOUR TEMPERATURE.
4. Press [OK].
5. Press [EA▶] or [EV▶] to select the desired setting.
6. Press [EXIT] to save the settings.



The following settings are available:

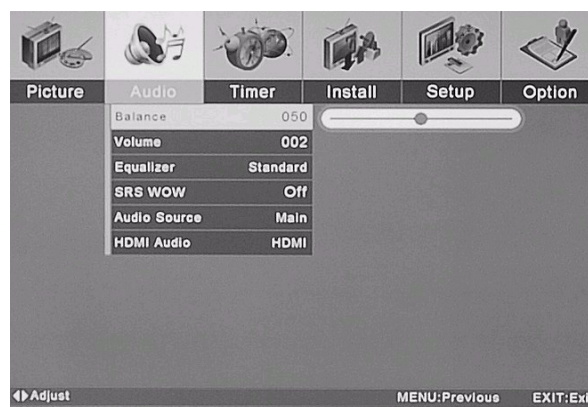


Red/Blue/Green

## Sound Settings

### Set Balance

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select AUDIO.
3. Press [EA▶] or [EV▼] and select BALANCE.
4. Press [OK].
5. Press [◀] or [▶] to select the desired setting.
6. Press [EXIT] to save the settings.



### Set volume

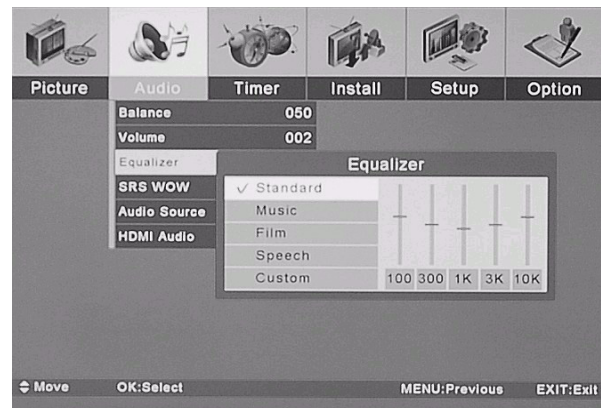
1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select AUDIO.
3. Press [EA▶] or [EV▼] and select VOLUME.
4. Press [OK].
5. Press [◀] or [▶] to select the desired setting.
6. Press [EXIT] to save the settings.




## Adjust Individual Audio Frequencies

Use this function to adjust the individual frequency ranges. The settings are allocated to the different picture modes. You can only adjust these settings, if the SRS function is turned off.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select AUDIO.
3. Press [EQ▲] or [EQ▼] and select EQUALIZER.
4. Press [OK].
5. Press [←] or [→] to select the desired frequency.
6. Press [EQ▲] or [EQ▼] to select the desired setting.
7. Press [EXIT] to save the settings.



## Surround Sound by SRS WOW

Use this function to simulate surround sound with the integrated loudspeakers. For this the SRS WOW<sup>®</sup> technology is used.  is a registered trademark.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select AUDIO.
3. Press [EQ▲] or [EQ▼] and select SRS WOW.
4. Press [OK].
5. Press [EQ▲] or [EQ▼] to select the desired setting.
6. Press [EXIT] to save the settings.



The following settings are available:  
On/Off



## Set Sound Source

Use this function to set which sound you will hear when watching picture-in-picture mode.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select AUDIO.
3. Press [EA] or [EV] and select AUDIO SOURCE.
4. Press [OK].
5. Press [EA] or [EV] to select the desired setting.
6. Press [EXIT] to save the settings.



The following settings are available :

- Main: You will hear the sound of the main screen
- Sub: You will hear the sound of the small screen

## Set Sound Source when using an Adapter Cable

If you have connected an external device with an DVI-HDMI adapter cable, this cable only transmits the digital image signals. You must provide the sound separately using the audio socket PC. Set the sound correspondingly in this menu.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select AUDIO.
3. Press [EA] or [EV] and select HDMI AUDIO.
4. Press [OK].
5. Press [EA] or [EV] to select the desired setting.
6. Press [EXIT] to save the settings.



The following settings are available :

- HDMI: You hear the sound of the HDMI input.  
 PC: You hear the sound of the AUDIO PC input.

## Set Time

In order to set the correct times for switching on and off automatically, the clock in the receiver must be set correctly. By default, the unit receives the current time from the selected station. You can enter the time manually as well. Enter the time in 12-hour format. In case of a power failure or if the power plug is removed, the set time will be lost.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select TIMER.
3. Press [◀] or [▶] and select CLOCK.
4. Press [OK].
5. Press [▶] or [▶] and select AM for times between midnight and noon or PM for the times between noon and midnight.
6. Press [▶].
7. Enter the time using the key pad.
8. Press [EXIT] to save the settings.



## Set Time by Station

Use this function to set the time of the unit to the time broadcast by the station.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select TIMER.
3. Press [▶] or [▶] and select UPDATE PR.
4. Press [◀] or [▶] and select the desired channel.
5. Press [EXIT] to save the settings.



## Set Switch on Time

Use this function to set a time when the unit turns on.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select TIMER.
3. Press [EA▶] or [EY▼] and select ON TIMER.
4. Press [OK].
5. Press [◀] or [▶], and select ON or OFF.
6. Press [EA▶] or [EY▼] and select AM for times between midnight and noon or PM for the times between noon and midnight.
7. Enter the time using the key pad.
8. Select the channel.
9. Set the volume.
10. Press [EXIT] to save the settings.



## Set Switch off Time

Use this function to set a time when the unit turns off.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select TIMER.
3. Press [EA▶] or [EY▼] and select OFF TIMER.
4. Press [OK].
5. Press [◀] or [▶], and select ON or OFF.
6. Press [EA▶] or [EY▼] and select AM for times between midnight and noon or PM for the times between noon and midnight.
7. Enter the time using the key pad.
8. Press [EXIT] to save the settings.

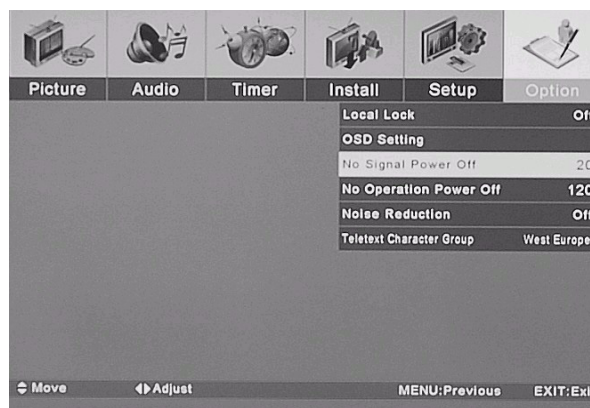


## Automatic Switch off

### *Automatic Switch off if no Signal is Received*

This function switches the unit automatically off, if no signal is received. (E.g. when a video tape was played completely and the video recorder turns off).

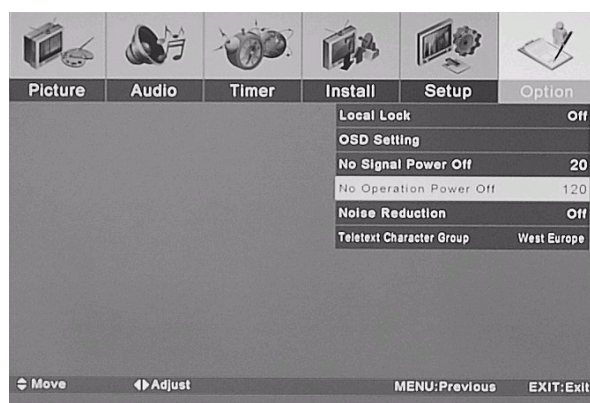
1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select OPTION.
3. Press [◀EV▶] or [▶EV▶], and select NO SIGNAL POWER OFF.
4. Press [◀] or [▶], and select the time.
5. Press [EXIT] to save the settings.



### *Switch Off if no Key is Pressed*

This function switches the unit automatically off, if no key is pressed for a longer time.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select OPTION.
3. Press [◀EV▶] or [▶EV▶], and select NO OPERATION POWER OFF.
4. Press [◀] or [▶], and select the time.
5. Press [EXIT] to save the settings.



## Set On-Screen Display

### *Set Duration*

Use this function to set the time span for which the on-screen display will be shown.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [Left] or [Right] and select OPTION.
3. Press [Up] or [Down], and select OSD SETTING.
4. Press [OK].
5. Press [Up] or [Down] and select OSD TIMEOUT.
6. Press [Left] or [Right] to select the desired setting.



If you select OFF the OSD menu will not switch off automatically.

7. Press [EXIT] to save the settings.

### Set Transparency

Use this function to set the transparency of the on-screen display.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [Left] or [Right] and select OPTION.
3. Press [Up] or [Down], and select OSD SETTING.
4. Press [OK].
5. Press [Up] or [Down] and select OSD TRANSPARENCE.
6. Press [Left] or [Right] to select the desired setting.
7. Press [EXIT] to save the settings.



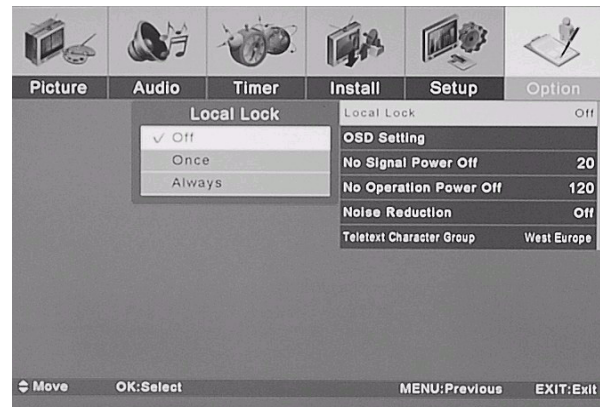


## Child Lock

You can lock the keys on the front panel of the unit. Then the operation is only possible by the remote control. In this case keep the remote control out of the reach of children.

### Activate Child Lock

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [◀] or [▶] and select OPTION.
3. Press [EA▶] or [EY▼], and select LOCAL LOCK.
4. Press [OK].
5. [EA▶] [EY▼] Press [ ] or [ ] to select the desired setting.
6. Press [OK] to confirm the selection.
7. Press [EXIT] to save the settings.



If a deactivated key is pressed the message TV Key will appear

The following settings are available:

- Off: No key lock.
- Once: The key lock is active until the unit is turned off using the remote control.
- Always: The key lock is permanently active.

### Deactivate Child Lock

To deactivate child lock, proceed as described in chapter “Activate Child Lock” on page 42 and select OFF.

## Set Characters for Teletext

Use this function to set the character set for teletext to your region.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select OPTION.
3. Press [EA] or [EV] and select TELETEXT CHARACTER GROUP.
4. Press [OK] to confirm the selection.
5. Press [EA] or [EV], and select the character set.
6. Press [OK] to confirm the selection.
7. Press [EXIT] to save the settings.



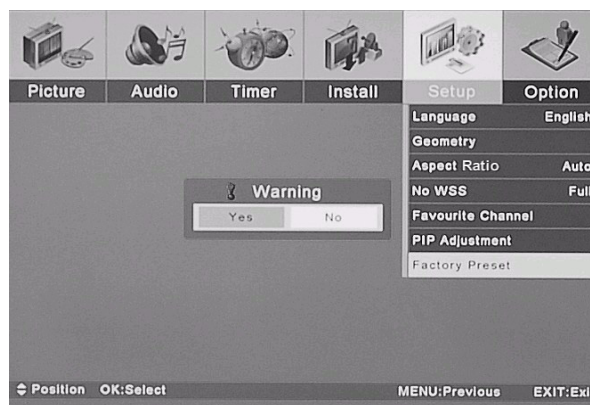
The following settings are available :

West Europe, East Europe, Cyrillic

## Restore Default

Use this function to set all settings you have made back to the default factory setting.

1. Press [MENU]. To return to the main menu, press [MENU] several times.
2. Press [←] or [→] and select SETUP.
3. Press [EA] or [EV] and select FACTORY PRESET.
4. Press [OK].
5. Press [←] to select YES in the warning window.
6. Press [OK].
7. Press the mains switch on the back of the unit.



## Settings for the Computer

If you are using the unit as a monitor for your computer make the relevant settings according to the settings of the TV.

If the signal of the graphic board corresponds to the standard setting the image is adjusted automatically. For the possible settings of the HDMI or RGB (VGA) input refer to the table below.

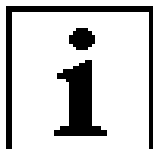
Resolution	Frequency (Hz)	Resolution	Frequency (Hz)
720 x 480	60i	800 x 600	60
720 x 480	60P	800 x 600	72
720 x 576	50i	800 x 600	75
720 x 576	50P	800 x 600	85
1280 x 720	50P	832 x 624	75
1280 x 720	60P	1024 x 768	60
1920 x 1080	50i	1024 x 768	70
1920 x 1080	60i	1024 x 768	72
640 x 350	70	1024 x 768	75
720 x 350	85	1024 x 768	85
720 x 400	70	1280 x 768	60
720 x 400	85	1280 x 768	75
640 x 480	60	1360 x 768	60
640 x 480	72	1152 x 864	60
640 x 480	75	1152 x 864	70
640 x 480	85	1152 x 864	75
720 x 480	67	1280 x 960	60
800 x 600	56	1280 x 1024	60



## Watching

### Watch Television Program

When you turn the unit on, the current television program will be displayed automatically.



If you have connected an external device via SCART-cable and the external device is switched on the picture and sound of that device will be displayed.

### Set volume

1. Press [] or [] to set the desired volume.

#### *Mute*

1. Press [] to switch the sound temporarily off.
2. Press [] to switch the sound on again.

### Change Channel

Press [] or [] to scroll through the channels.

#### *Switch to Last Channel*

Use this function to toggle between the last two channels you have watched.

1. Press [].

#### *Watch Favourite Channel*



1. Press [] to scroll through your favourite channels.

For information on how to program your favourite channels see: “Channel Groups” on page 30.

You can also select the desired channel directly with the numeric keys on the remote control.




### Show Channel Information


Use this function to display the current station name and the channel.

1. Press [.
2. Press [] again to hide the information.

### Recall a Favourite Channel

Use this function to scroll through the channels or sources you have stored as your favourite stations. This way you do not need to scroll through all the stations, if you only want to watch specific subjects. On how to store channels as your favourites see: “Channel Groups” on page 30.

1. Press [.
2. Press [] or [] and select the desired channel.

If you scroll through the channels now, only the members of this group will be displayed. If you want to scroll through all the channels again, press [.

### Select source




Use this function to select which signal will be displayed on the main screen, if you have connected several sources (e.g. a decoder and a roof aerial).

1. Press [.



### Select Input

Use this function to switch directly between the different input channels. For this, press the keys below.

- []: Selects a PC input.  
 []: Selects a COMPONENT input.  
 []: Selects a SCART input.

## Watch Two Programs at the Same Time (PIP )

Use this function to display a second picture. This way you can watch two programs you are receiving by antenna or by the other inputs at the same time. You can display one large and one small picture (PIP) or two pictures of the same size (POP). You can adapt the size and the position of the small picture. This function is only available with the remote control.

### Display Second Picture

1. Press [].

### Select Signal Source for PIP

Use this function to select which signal will be displayed on the sub screen, if you have connected several sources (e.g. a decoder and a roof aerial).

1. Press [].



### Toggle between Two Pictures

1. Press [].

This function is only available if you have selected a signal source for the main screen and the sub screen.

### Switch Second Picture Off

1. Press [] several times.

### Toggle Sound between Main Screen and Sub Screen

1. Press [].

### Display Two Pictures at the same Time

1. Press [] several times.

This function is only available if you have selected a signal source for the main screen and the sub screen.

## Set Picture-in-Picture Size

Use this function to set the size of the small picture.

1. Press [].
2. Press [].
3. Press [] or [] or [] or [] or [] and select the desired size.

You can also adjust this setting in the menu SETUP.

## Set Picture-in-Picture Position


Use this function to set where the sub screen will be displayed.

1. Press [].
2. Press [].
3. Press [] or [] or [] or [] or [] and select the desired size.

You can also adjust this setting in the menu SETUP.





## Video Text




This function is only available if the current station broadcasts teletext.

1. Press [] to display the video text.

Teletext is not available for PIP.



The following settings are available :

- |  |   |
|--|---|
| [  ]: | Cancels the current function.   |
| [  ]: | Opens a sub page (if available). Enter the number of the sub page using the key pad.              |
| [  ]: | Interrupts the display of several sequential pages. To continue the display, press the key again. |
| [  ]: | Shows hidden text (e.g. solutions in quiz shows).   |

- []: Increases/decreases the display. Press the key several times to scroll through the different sizes.
- []: Shows teletext on a transparent background.
- []: Shows the index page of teletext.



## Still Picture

Use this function to hold the picture.

1. Press [].  
During the display of the still picture the sound will continue to play.
2. Press [] again to continue watching.


## Show Time

Use this function to display the time. If teletext is displayed, the time will not be shown.

1. Press [].
2. Press [] again to hide the time.


## Set Sleep Time

Use this function to set after how many minutes the unit will switch off.

1. Press [] until the desired number of minutes is displayed.

## Set Picture Mode while Watching


Use this function to adapt the picture optimally to the content.

1. Press [] until the desired mode is displayed.

For further information on the settings refer to: "Set Picture Mode" on page 33.

## Adjust Picture Size while Watching



Use this function to set the picture size.

1. Press [] until the desired size is displayed.

For further information on the settings refer to: “Set Aspect Ratio” on page 31.

## Set Surround Sound while Watching


Use this function to set the sound effects.

1. Press [].
2. Press [] again to switch the sound effect off.

For further information on the settings refer to: “Surround Sound by SRS WOW” on page 36.

## Set Sound while Watching



Use this function to adjust the sound optimally to the content.

1. Press [] until the desired mode is displayed.

For further information on the settings refer to: “Adjust Individual Audio Frequencies” on page 35.

## Set Stereo/Mono while Watching

Use this function to turn the stereo sound on or off.

1. Press [].
2. Press [] again to switch the sound effect off.

For further information on the settings refer to: “Sound Settings” on page 27.

## Select a Different Audio Language while Watching

Use this function to select the language of a program. This only works when the program is broadcast in more than one language. See chapter “Sound Settings” on page 27.

1. Press [] to toggle between the languages.

## Cleaning and Troubleshooting

### Cleaning



Use a dry cloth to clean the unit. Never use water, cleaning detergents or spray cleaners.

### Troubleshooting

If there are problems with the receiver, please check the points below first, before contacting the service centre.



Never open the unit. This may lead to electric shocks and will void the warranty.

### No Picture or Sound

Make sure the receiver and the TV set are both connected to the mains and switched on.

Check, that the antenna cable is undamaged and securely connected to the respective sockets on the TV set. See chapter "Connection to Roof Aerial" on page 16.

If you are using a SCART cable, make sure the cable is connected properly.

### Black Screen

Check whether a signal source is selected. See "Select source" on page 46 and "Select Input" on page 46.

## **Picture OK but no Sound**

Check whether the sound is set to mute or if it is turned down. See chapter “Set volume” on page 45.

Check if the sound is ok on another channel. If this is the case, the program is broadcast improperly.

## **Poor Sound**

Switch between stereo and mono sound. See chapter “Set Stereo/Mono while Watching” on page 50.

## **No Picture on Some Channels**

Check if the channel has been tuned to a station. See chapter “Tuning” on page 22.

Adjust the fine tuning. See chapter “Fine Tuning” on page 26.

## **Unstable, Poor Picture**

Adjust the fine tuning. See chapter “Fine Tuning” on page 26.

Check if strong electromagnetic fields, e.g. caused by electric devices nearby cause the impairments

## **Some Channels Display Black and White**

Check if other channels display colours. If yes, the program is broadcast in black and white.

Adjust the colour settings.

## **Snow on one or Several Channels**

Check, that the antenna cable is undamaged and securely connected to the respective sockets on the TV set. Adjust the fine tuning. See chapter “Fine Tuning” on page 26.



## **Remote Control Does Not Work**

Make sure the unit is connected to the power supply and switched on. Check whether the batteries are inserted correctly and whether they are sufficiently charged. To do this, insert new batteries for testing.

## **Message "No Signal"**

Check whether the connecting cable is properly connected to the computer and the respective sockets. Check whether the connecting cable is properly connected to the computer and the respective sockets.

## **Message "Video not Supported"**

The resolution or the frequency of the graphic board in the computer cannot be displayed. Change the settings in the computer.

## **Picture Scrolls Vertically**

Check whether the connecting cable is properly connected to the computer and the respective sockets. Check whether the connecting cable is properly connected to the computer and the respective sockets. Check whether the connecting cable is properly connected to the computer and the respective sockets. Check whether the connecting cable is properly connected to the computer and the respective sockets.

## **Parts of the Picture are not Displayed**

The resolution and the frequency of the graphic board in the computer cannot be displayed.

Adjust the settings. See chapter "Settings" on page 21.

## **Picture Too Small or Too Large**

Adjust the settings. See chapter "Settings" on page 21.

## **Horizontal or Vertical Bars**

Adjust the settings of the computer. See chapter “Settings for the Computer” on page 44.

## **Other Errors**

If the error cannot be solved, please contact your dealer or TARGA GmbH, Lange Wende 41, 59494 Soest, Germany; [www.targa.co.uk](http://www.targa.co.uk). For the phone number of the competent hotline, refer to the warranty card.

Before calling, note the serial number of the unit. You will find the serial number on the back of the unit.

## Technical specifications

### General

Input voltage	AC 220-240 V~, 50/60 Hz
Power consumption ON-Status	max. 267 Watt
Power consumption Stand-by	< 3 Watt
Dimensions	987 x 702 x 250 mm (W x H x D) incl. stand
Weight	29 kg
Operating temperature	+5 C° to +35 C°
Storage temperature	-20 C° to +40 C°
Remote control	
Type	Infrared
Battery Type	R03 1.5 V Size AAA

### LCD

Diagonal	40" (16:9)
Screen size	885 mm (H) x 497 mm (V)
Pixel	1366 x RGB x 768
Type	a-Si TFT active matrix

### Tuner

Frequency UHF/VHF 75 ohm	
Colour system	PAL / SECAM / AV NTSC
TV-System	BG, D/K, I, L, L', M
Video system	CVBS, S-Video, RGB, Y Pb Pr
Video Text	4000 pages
3D Auto DNR	Yes
Comb filter	3D digital

### Audio

System	A2 stereo, NICAM
Mode	Stereo, mono, SRS WOW, channel 1, channel 2
Output level	2 x 10 Watt RMS
Loudspeaker	2-way (R/L), 4 Ohm

## Component

Y/Pb/Pr, Component 1&amp;2

480i/p 60 Hz, 576i/p 50 Hz, 720p 50Hz, 720p 60Hz, 1080i 50Hz, 1080i 60Hz

## SCART

Socket 1  
Socket 2Full SCART (RGB, S-Video, CVBS)  
Half SCART (S-Video, CVBS)

## PC

Synchronisation

30~61 kHz horizontal

56~75 Hz vertical

Colour display

16.7 M (true)

Resolution

Max. 1360 x 768

Input signal

RGB

Synchronisation H/V separated

Positive or negative

## HDMI

HDMI

HDCP

## Glossary

### **DVI - Digital Visual Interface**

DVI is an interface to transmit analogous and digital video and graphic signals. For computers this type of interface has prevailed for flat screens. DVI is used to connect high quality graphic board to high resolution flat screens. The advantage of DVI is that the digital signals from the graphic board do not need to be converted into analogous signals but can be transferred directly to the digital flat screen without any impairment to the quality.

### **S-Video**

S-Video (also known as Separate Video, Y/C) refers to the separate transmission of brightness and colour information with corresponding cable connections.

### **DVB (Digital Video Broadcasting)**

This is originally a European initiative to develop and standardize digital broadcasting standards for television. Today, the standards of the DVB family are the most widespread standards for digital television.

### **SCART**

SCART is a European standard for plug-in connections of video and audio devices such as television sets or video recorder. The abbreviation SCART stands for the French Syndicat des Constructeurs d'Appareils Radiorécepteurs et Téléviseurs (Association of manufacturers of radio and television receivers). The SCART connector intends to simplify and standardize the connection of different devices by including one single multi pin plug used by all manufacturers. The SCART connector allows to transmit the analogous signals Composite Video, RGB and on newer devices S-Video. Other signals than RGB such as forms of Component Video like YUV Video and digital video and audio signals are not supported.

Due to its shape it is impossible to connect the plug wrongly.

### **Composite Video**

Composite Video is the format of the analogous TV picture signal before it is combined with the modulated sound signal and modulated onto an RF carrier Frequency (Radio or television Frequency). Composite Video is also referred to

as FBAS or CVBS. It is produced by three source signals referred to as Y, U and V (together YUV). Y refers to the brightness of the picture. U and V carry the colour information.

### **RGB colour space**

RGB refers to the method by which the individual colours are calculated for display on the screen. Red Green Blue is an additive colour model in which the basic colours add up to white (light mixing). Any other colour is described by the three values determining the share of Red, Green and Blue. Each colour can have a share between 0% and 100%

### **Video Formats**

The different recording methods for videos are referred to as video formats. In general the formats can be classified as video tape formats and file based formats. File based format are usually digital and video tape formats store the information analogous or digital.

Digital, file based formats are becoming more and more widespread, because later processing of these formats is considerably easier.

For the file based digitalising different formats are used. To standardise the increasing diversity of formats for the professional video range the file format MXF was developed and standardized.

### **SRS WOW<sup>®</sup>**

The original stereo signal provides a limited hearing impression only. The impression is quite different, if the SRS WOW<sup>®</sup> technology is used. By creating a three dimensional sound image the limited possibilities of small speakers and headsets are exceeded. The sound impression is extended compared to standard speakers. The bass is more sound and fuller as it is up to half an octave below the nominal physical limit of the speaker. SRS stands for Sound Retrieval System.

### **DVB-T (DVB-Terrestrial)**

This is the terrestrial version of the DVB family of standards. In Germany, the switch of roof aerial television broadcast to DVB-T started in November 2002 in Berlin.

**DVB-S (DVB - Satellite)**

This is the satellite version of the DVB family of standards. This is the terrestrial version of the DVB family of standards.





## Conformity



This product fulfils the EC guidelines 89/336/EEC (EMC guideline) with amendments 93/68 EEC and 92/31 EEC and the EC guideline 73/23/EEC (low voltage guideline) with amendments 93/68/EEC.

## Disposal



This product is subject to the European guideline 2002/96/EC.

All electric and electronic devices must be disposed of separately from household waste at publicly established facilities.

Avoid hazard to the environment and dangers to your personal health by disposing the device properly.

For further information about the proper disposal, contact the relevant local government department, the disposal facility or the shop where you bought the device.



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