# Flat Panel TV

# CE

# USER'S MANUAL

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Português



At the end of its life, the appliance must not be disposed of in household rubbish. Enquire about the options for environmentally-friendly disposal



Do not dispose of used batteries in the household rubbish! They must be deposited at a collection point for used batteries.

# 1. SAFETY AND PRECAUTIONS

Please read through this section carefully and follow the instructions to maximize the reliable operation and lifetime of your display. Always keep these instructions handy and close by your display. Keep the instructions and the packaging so that if you sell or give away your display you can supply them to the new owner.

# **OPERATING SAFETY**



• Never open the housing of the display! When the housing is open there is a danger of injury from electric shock!



- Do not insert **any objects** through the slots and openings of the monitor. This may lead to an electrical short-circuit or even fire resulting in damage to your display.
- Slots and openings in the display are for ventilation purpose. **Do not cover these openings,** as this may lead to overheating.
- The TV device must **not** be subjected to **drips or sprayed water on any account**.
- Do not allow **children** to play **unattended** with electrical equipment. Children may not always correctly recognize danger.
- This display is intended for personal use only. It **not** intended for commercial use in **a heavy industry environment**.
- An **injury hazard** exists when the **display breaks**. Wear protective gloves to pack the broken parts and send them into your service center for proper **disposal**. Then wash your hands with soap, because it is possible for **chemicals** to escape.
- Never exert pressure on the display. This could break the monitor.
- Do not touch the display with your fingers or with sharp objects to avoid damage.

Contact the Call Center immediately in any of the following situations. Do NOT plug in or turn on your display:

- if the power cable/power supply overheats or is damaged
- if liquid has gotten into the monitor
- if the display is dropped or the housing damaged

#### REPAIR

- Leave all repairs of your display to **authorized and qualified personnel** only.
- Should a repair be necessary, please contact one of our authorized **service partners** only.

#### **NOTES FOR SERVICE ENGINEERS**

- Before opening the housing, **disconnect the product from all power sources and remove any connecting cables**. If the display has not been disconnected from the power outlet before being opened, there is a **danger to life** through electric shock. There is also a risk of damage to the components.
- Internal components of the display may be damaged by **electrostatic discharge** (ESD). Carry out repairs in an **ESD-protected workshop**. If no such workshop is available, wear an **antistatic wrist strap** or touch a highly conductive metal object. We can repair damage sustained by inappropriate handling for a fee.
- Use only **original spare parts**.



#### **POINT OF USE**

- Keep your display and all units connected to it away from moisture and avoid dust, heat and direct sunlight. Failure to observe these instructions can lead to malfunctions or damage to the display.
- Do not place **any containers filled with liquid** (vases or similar) **on the TV**. The container could tip over and the liquid could impair electrical safety.
- Do not place any open sources of fire (candles or similar objects) onto the TV device.
- Pay attention to **sufficiently large distances** in the wall unit. Maintain a **minimum distance of 10 cm around the device** for sufficient ventilation.
- Place and operate all units on **a stable**, **level** and **vibration-free surface** in order to avoid the display from falling.
- The optimum viewing distance is 5 times the screen diagonal.

#### **ENVIRONMENTAL CONDITIONS**

- The display can be operated most reliably at ambient temperatures between **+41°F** and **+95°F** (5° C to 35° C) and at a relative humidity between 20% and 85% (without condensation).
- When switched off, the monitor can be stored most reliably between +**14°F** and **+140°F** (-10° C - +60° C), up to the maximum height of 39,000 ft (12,000 m) above sea level at a relative humidity between 10% and 85% (without condensation).
- After transporting your display please wait until it has assumed the ambient temperature before connecting and switching it on. Extremely high variations in the temperature or humidity may result in **condensation** forming on the inside of the display which could cause an **electrical short-circuit**.

#### CONNECTING

Observe the following instructions to connect your display properly:

POWER SUPPLY

- Operate your display only with grounded outlets with AC 230V/240V~ 50 Hz. If you are not sure about the power supply at your location, check with your power company.
- Use only power connection cable **provided.**
- For additional safety we recommend use of **a surge protector** to protect your display from damage resulting from **voltage surges** or **lightning**.
- To remove the display from the power supply, disconnect the plug from the AC outlet.
- The mains switch installed does not detach the TV from the mains supply completely.
- The power **outlet** must be in the vicinity of your display and within reach of the power cables. **DO NOT stretch the power cables tightly to reach a power outlet**.
- You should arrange the display cables in a manner that no one can trip over or step on them.
- To avoid damage of cable **do not place any objects or furniture on the cable**.

#### **REMOTE OPERATION**

- Open the battery compartment of the remote by removing the cover.
- Insert Micro / AAA type batteries into the battery compartment on the back of the remote. Pay attention to the polarity of the batteries (marked on the base of the battery compartment) at the same time.
- **Environmental note**: Batteries, also non-metal ones must not be disposed of in the domestic waste. Used batteries must be put into the used battery collection container at the seller or into public disposal facilities.

#### STANDARDS/ELECTRO-MAGNETIC COMPATIBILITY

Your display fulfils the requirements for electro-magnetic compatibility and electrical safety specified in the following standards:

#### EN 55013, EN 55020, EN 60065, EN 61000-3-2, EN 61000-3-3

 Provide a space of at least three feet from high-frequency and magnetic sources of interference (television sets, loudspeakers, mobile telephones, etc.) in order to avoid malfunctions.

#### ERGONOMICS

- For ergonomic reasons we suggest not to use dark text with a blue background. This would cause bad readability and would increase eye strain.
- While working with display you should **take breaks periodically** to avoid tension and fatigue.
- In order to protect your eyes and to create a pleasant working area you should **avoid glare**, **reflections** and **strong contrasts** on the screen.

TRANSPORT AND RECYCLING

• Keep the original packaging and use it to protect the display during transport or storage.

#### PRECAUTIONS

 Caution! There are no parts which can be serviced or cleaned inside of the monitor housing.

You can increase the life of your display by taking the following precautions:

- Before cleaning always disconnect the power line and all connection cables.
- Do **not use any solvents**, caustic or gaseous cleaning agents. Clean the display with a soft, lint-free cloth.
- Ensure that no water droplets remain on the screen. Water can cause **permanent dis-colouration**.
- Do not expose the screen to **bright sunlight** or **ultraviolet radiation**.

## **IMPORTANT ADDITIONAL SAFETY INSTRUCTIONS**

When using any electronic equipment, basic safety precautions should always be taken. Following the guidelines below can reduce the risk of fire, electric shock and injury to person:

- Do not use this product near water (e.g., near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool).
- Use only the power cord indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
- Keep batteries away from children at all times.

## **RECYCLING AND DISPOSAL**

This device and its packaging have manufactured from materials that can be disposed of in an environmentally-friendly way and sent to correct recycling to a great extent.

The device will be taken back after use, in order to send it to reutilization or exploitation of the materials, as far as is it is returned in a state that corresponds to use in accordance with regulations. Parts of the device that cannot be made use of will be disposed of correctly.

Please contact your point of sale or our service if you have questions about disposal.

Thank you for purchasing our Multi-display. We thank you for your confidence in our products and are pleased to greet you as a new customer. We focused on great features, ease of use and reliability in manufacturing your display.

#### SERVICE

Service and support will be available every time you use your new monitor. Contact us, we will be glad to help you. This manual contains a separate chapter on the subject of Trouble-shooting on page 35.

## **Performance Characteristics**

#### Advantages in relation to CRT (cathode ray tube) displays:

Less space required

2. INTRODUCTION

- Lower weight
- Power savings
- > Low radiation

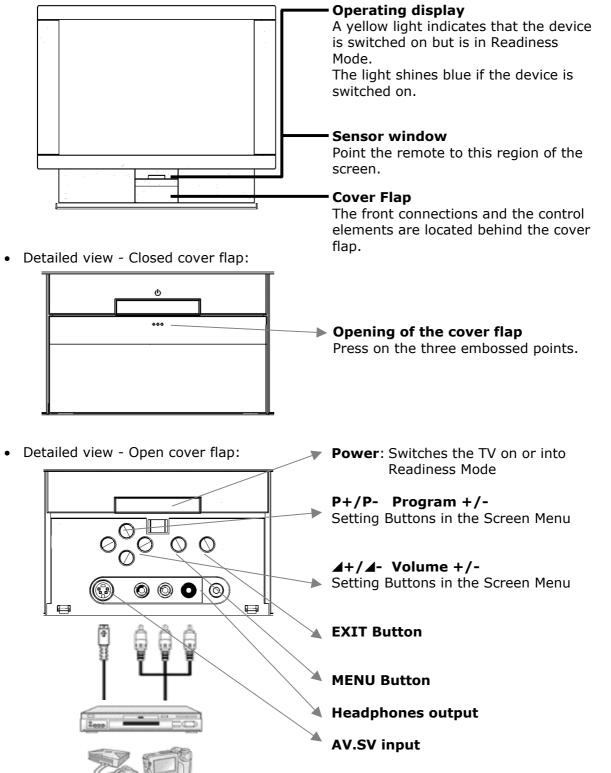
#### Features

- High resolution display
- > On Screen Display (OSD) Graphic operating surface
- > 499 channel slots, 3 AV settings, PC Mode
- Multi-standard PAL, SECAM, NTSC
- > "HD ready" HDTV compatible
- > The following connections are available:
  - Tuner connection
  - SCART/AV1 (Video, S-Video, RGB, YCrCb, YPrPb)
  - SCART/AV2 (Video, S-Video, RGB, YCrCb, YPrPb)
  - Front AV.SV (Video/S-Video and Audio In)
  - Headphones
  - Analogue and digital PC input (DVI-I connection)
  - PC Audio In
- Easy to operate remote
- Easy to operate Picture Menu system
- > Automatic APSAS installation system (<u>A</u>utomatic <u>Program Search And Sort</u>)
- > TOP/FLOF Teletext function with 2,100 page memory and multi-page text
  - Completely digital picture improvements:
  - Dynamic noise reduction
    - Comb filter
    - Perfect Clear
    - Image sharpness
    - CTI
- > Dual-tuner PIP: PIP from two different signal sources
- Freeze frame and multi-image (station overview)
- > Full picture format independent of the signal source
- Headphones socket for screened listening pleasure
- Integrated 2-way loudspeaker system with 6 loudspeakers
- Decoder function
- Intelligent Swap Function
- Sleep Timer
- Child Lock
- > Plug and Play: automatic recognition of your operating system
- Four games: Brixx, Anaconda, Scramble and Outer Space

5

# **3. CONTROL ELEMENTS AND FRONT CONNECTIONS**

The Buttons on the device control the basic functioning of the TV, including the On-Screen Menu. You will reach the advanced functions through the remote.

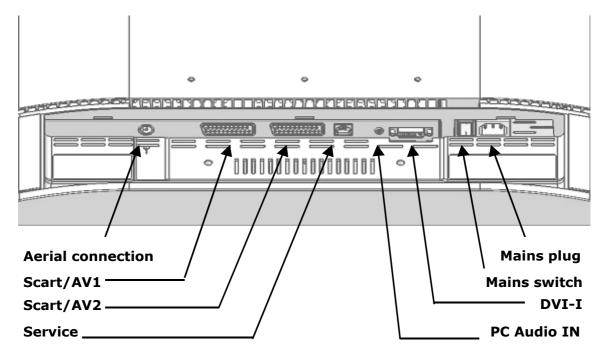


**Note:** Please read chapter "10. Connecting External Devices" on page 25 for further information about operating external device.

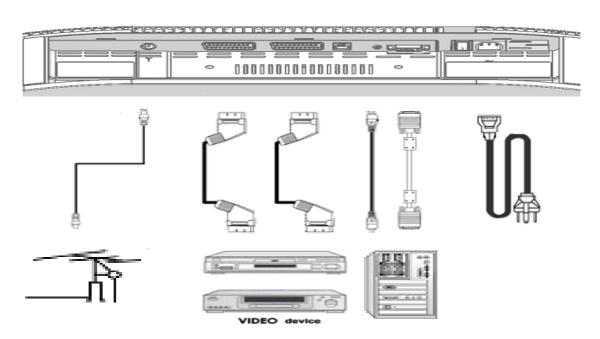
# 4. BACK OF THE DEVICE AND CONNECTIONS

The connections and the mains switch on the back of the device are located behind an attached cover, which can be removed simply by pulling it.

• View from diagonally below - Cover removed:



**Information:** The service socket is exclusively intended for our authorized service partners. Improper use can lead to damage to your TV device.



**Note:** Please read chapter "10. Connecting External Devices" on page 25 for further information about operating external devices.

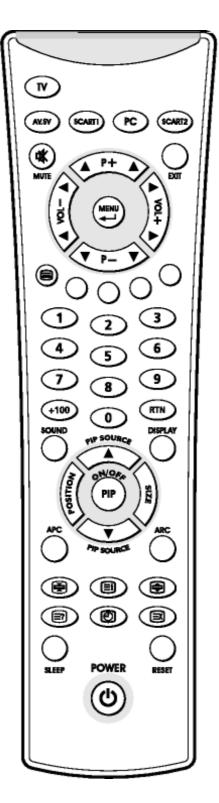
Português

7

English

# 5. REMOTE CONTROL

This is for a remote that is suitable for your TV; you will find the relevant Button identification and arrangement on the following page:



# SUMMARY OF CONTROL BUTTONS

| Device on or swi                          | tch to Readiness Mode   |  |  |  |  |
|---|---|--|--|--|--|
| POWER                                     | Switches the device on or into Operating Mode alternately   |  |  |  |  |
| Selecting the Sig                         | nal Source  |  |  |  |  |
| TV Switch to the TV mode.                 |   |  |  |  |  |
| PC  | Switches to PC mode (VGA or DVI)  |  |  |  |  |
| AV.SV                                     | Switches to video mode or S-video mode (See "AV Menu settings" from Page 26)  |  |  |  |  |
| SCART 1                                   | Switches to SCART 1. Switches between video, S-video, RGB and Auto if pressed several times.                        |  |  |  |  |
| SCART 2                                   | Switches to SCART 2. Switches between video, S-video Auto if pressed several times.                                 |  |  |  |  |
| 0   | Switches between PC, AV.SV, SCART/AV 1 and SCART/AV 2   |  |  |  |  |
| Menu Setting                              |   |  |  |  |  |
| MENU/ENTER                                | Display the main on-screen menu or enter the next menu.   |  |  |  |  |
| P+/P-                                     | Press to select the item you want to adjust in the OSD menu.  |  |  |  |  |
| VOL-/VOL+                                 | Press to decrease or increase the value in the OSD control bar.   |  |  |  |  |
| EXIT                                      | One level back in the Menu.   |  |  |  |  |
| Changing Channe                           | els   |  |  |  |  |
| P-/P+                                     | Press P- or P+ to change programs in TV mode or Teletext page in TELETEXT mode.                                     |  |  |  |  |
| 0-9                                       | To select programs directly in TV mode.   |  |  |  |  |
| RTN                                       | Press to return to the previous program.  |  |  |  |  |
| Sound Control                             |   |  |  |  |  |
| VOL+/VOL-                                 | Press to turn up or turn down the volume.   |  |  |  |  |
| MUTE                                      | Press to switch the sound on or off.  |  |  |  |  |
| SOUND                                     | Press to change directly to the Sound Menu  |  |  |  |  |
| <b>Teletext Control</b>                   |   |  |  |  |  |
| TELETEXT                                  | Press to show the Teletext Service. Press again to return to TV viewing.  |  |  |  |  |
| ∃i INDEX                                  | Press to show the list of Teletext contents.  |  |  |  |  |
| STOP STOP                                 | Press to stop the automatic page change.  |  |  |  |  |
| INTERRUPT                                 | Press to switch to TV while waiting for the next page.  |  |  |  |  |
| REVEAL                                    | Press to display concealed information, such as solutions of riddles or a quiz.                                     |  |  |  |  |
| EXPAND                                    | Press to enlarge the top half or bottom half of the Teletext page.  |  |  |  |  |
| P-/P+ Press P- or P+ to use Page Catching |   |  |  |  |  |
| PIP Control                               |   |  |  |  |  |
| ON/OFF                                    | Press to watch one of the video sources on Sub-display, whilst in OC mode. Press again to turn off the Sub-display. |  |  |  |  |
| PIP SOURCE                                | Selects the source of the PIP Window.   |  |  |  |  |
| POSITION                                  | To shift the PIP Window.  |  |  |  |  |
| SIZE                                      | Sets the size of the PIP Window.  |  |  |  |  |
| <b>Other Functions</b>                    |   |  |  |  |  |
| RESET                                     | Reset the original factory setting, such as Contrast and Colour.  |  |  |  |  |
| YELLOW BUTTON                             | Press to switch freeze frame function on and off  |  |  |  |  |
| GREEN BUTTON                              | Press to switch multi-image (station overview) on and off   |  |  |  |  |
| RED BUTTON                                | Press to call up the Picture Menu   |  |  |  |  |
| BLUE BUTTON                               | Press to call up the Sound Menu   |  |  |  |  |
| ARC                                       | Changes the format.   |  |  |  |  |
| APC                                       | Adjusts the backlight in three levels.  |  |  |  |  |
| DISPLAY                                   | Displays the current signal source, program number and sound options.   |  |  |  |  |
| SLEEP                                     | Press to select a preset time interval for automatic power off.   |  |  |  |  |
| O TIME                                    | Press to display the digital or the analog clock alternately and switch off   |  |  |  |  |
| +100                                      | No function   |  |  |  |  |

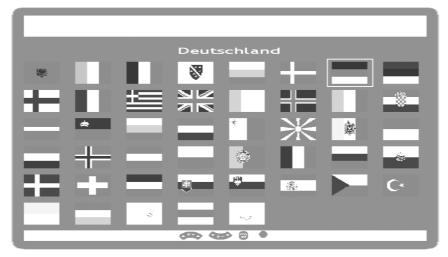
English

Deutsch

# 6. APSAS FIRST TIME INSTALLATION

Your TV device has the APSAS (<u>A</u>utomatic <u>P</u>rogram <u>S</u>earch <u>A</u>nd <u>S</u>ort) automatic installation system and a graphic OSD (On Screen Display) operating surface. Both systems will make the initial installation and the operation of your device in future easier for you.

- 1. After removing the display packaging, ensure the product is installed in a safe and well ventilated position.
- 2. Insert two AAA type batteries into battery compartment on the rear of the remote control.
- 3. Connect the external 75 Ohm aerial cable and the electricity cable to the relevant connections and make sure that the mains switch on the back is switched on.
- The initial Installation Menu will appear when you switch on your TV for the first time by pressing the **POWER** Button on the remote. Carry out the following settings and use the **P+ / P-, VOL+ / VOL-** and **MENU** Buttons to control the menus.
- 5. The flags of all locations for which the TV is suitable will appear on your screen.



Please select the flag of the location where you are with the P+/P- / VOL+ / VOL- setting Buttons and confirm your selection with the MENU Button. The Menu will appear after you have made your selection.



- 7. The location will have been set in accordance with your flag selection. You can return to the flag selection at the Location Select Menu Point, if you want to correct the country setting again.
- 8. The language of the country suitable to the selected location will have been preset automatically. However, you can select any other Menu language at the Language Menu Point.

English

9. Please go to the Start Menu Point with the assistance of the **P+/P-** setting Buttons, after you have selected your preferred language.

The automatic initial setting is started by selecting 'Further' by means of **MENU** and the **P+/P-** buttons. During this, the device will automatically search for all the television channels that can be received at your location, and sort them and store them according to your entries concerning the location and the language. The following Menu will appear at the same time:



- 10. This Menu simply has a display function to inform you about the progress of the initial installation. However, press the **MENU** Button if you want to cancel the station search. No television channels will, however, be stored in this case. You will reach the start of the initial installation again if you switch the device off and on again.
- 11. The program table will appear on the screen after the initial sound setting has finished. You can move, rename, delete and add channels, or carry out fine adjustments in the program table (you will find details about this in "Program table" from Page 18).

| SCAR   | Т1      | Program    | table<br>TV |  |
|--------|---------|------------|-------------|--|
| SCAR   |         |            | TV          |  |
| AV.SV  |         |            | TV          |  |
| PC     |         |            | TV          |  |
| ΤV     | 1       | ARD        | TV          |  |
| TV     | 2       | ZDF        | TV          |  |
| TV     | 3       |            | TV          |  |
| • Dele | ete • M | ove • Edit |             |  |

12. Press **EXIT** to reach the TV Mode directly, if you do not want to carry out any changes to the automatically stored and sorted channels.

# 7. GENERAL CONTROLS & ADJUSTMENT

## TURNING THE DISPLAY ON AND OFF

The mains switch of the TV is located on the back of the device. The device moves to Readiness Mode if this switch is switched on.

The operating display shines yellow in Readiness Mode. It is possible to switch the device to the normal Operating Mode by means of the **POWER** Button on the remote or on the device.

The operating display shines blue in the normal Operating Mode. It is possible to switch the TV back to the Readiness Mode by means of the **POWER** Button on the remote or on the device.

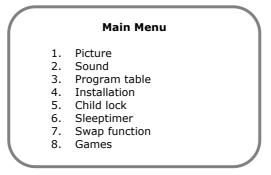
Please wait 15 seconds before operating the mains switch again if you switch the device off with the mains switch.

**Note**: The energy consumption of the TV reduced to the minimum necessary in Readiness Mode. No energy is consumed, but there is no complete detachment from the mains, if the mains switch of the TV is switched off!

#### **CALLING UP MENUS AND OPERATING THE ON-SCREEN CONTROL**

Your TV device has a graphic OSD (On Screen Display) operating surface, which will make the operation and management of your TV device easier for you.

1. Press the **MENU** Button when the device is switched on. The Main Menu will appear on the screen then.



- 2. You navigate through the Menus with the **P+/P-** Buttons. Press the **MENU** Button when the cursor is on the required Menu Point. This will activate that Menu Point.
- 3. The Menu Points can be called up and activated directly by means of the **Number** Buttons.
- 4. A selection window will appear or the Setting / Entry Mode will be switched on when a sub-menu is activated, according to the Menu Point.
- 5. You can leave the relevant Menus, sub-menus, selection window or the Setting / Entry Mode again by pressing **EXIT**.
- 6. The Buttons that each function in the respective Menu has are displayed in the last line of the Menu.
- 7. Functions that cannot be selected in a particular additional status of the device are presented in grey type.

Français

Dansk

## **CONTINUE SWITCHING CHANNELS**

You have three different possibilities to switch through the channels available:

- Through direct entry of the channel number: You will call up the channel directly through the **0-9** Buttons. You can enter the following digit within 2 seconds after entering the first digit, in order to call up multi-digit channel numbers.
- 2. You switch through the channels running by pressing the **P+/P-** Buttons briefly.
- 3. A list of channels, within which you are able to change the **P+/P-** Buttons, is displayed by pressing these Buttons for a longer time. This list of channels can also be displayed directly by pressing the **DISPLAY** Button.

# SWITCH BETWEEN TV / PC / AV

Switch on connected devices (video recorder, DVD player, PC, SAT receiver, etc.) and press the relevant button on the remote:

- Press the **TV** button to switch to TV mode.
- Press the PC button to switch to PC mode.
- $\succ~$  Press the  $\mbox{AV.SV}$  button to switch to video mode.
- Press the SCART 1 or SCART 2 Button, to select the SCART/AV1 or SCART/AV2 input.

The Scart sockets have automatic recognition whether the connected device has been switched on (provided that this is supported by the connected device). In most cases, switching over to the Scart inputs used takes place automatically through this and does not have to be selected manually.

# VOLUME CONTROL

## USING VOLUME CONTROL

Press **VOL-**/ **VOL+** button to turn up or turn down the sound volume.

## USING MUTE

At any time, you can temporarily turn off the sound by pressing the **MUTE** button.

- 1. Press the  $\ensuremath{\textbf{MUTE}}$  button and the sound cuts off.
- 2. Press the **MUTE** again or **VOL-** / **VOL+** button to turn the sound back to the previous level.

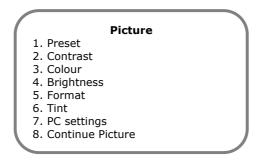
# PICTURE (CONTRAST, COLOUR, BRIGHTNESS, ETC.)

Your TV offers you the possibility of establishing values for the picture for the TV, PC operation and AV settings according to your taste.

For example, lower brightness and contrast values are used for the PC Mode than for other types of operation. Apart from this, there is the possibility of selecting optimized factory presets for contrast and brightness (EVENING, DAYTIME).

Variation 1: Press the **RED** Button to reach the Picture Menu directly.

Variation 2: Press the **MENU** Button to call up the Main Menu, set the cursor on PICTURE by means of the **P+/P-** Buttons and call up the appropriate Menu by means of the **MENU** Button.



#### 1. Preset:

Here, you can choose between the optimal factory presets or manual contrast and brightness setting. The selection is made with the **VOL+/VOL** Buttons or through a menu by means of **MENU**. The preset can also be selected outside the Picture Menu by means of the **APC** Button.

> DAYTIME:

Here, the contrast of the picture is increased, to achieve an optimum presentation of the picture in daylight or in the case of night scenes.

> EVENING:

The contrast of the picture is reduced here. An attractive picture arises through this, particularly in the evening, when there is little surrounding light.

> MANUAL:

You can establish contrast and brightness yourself, to adjust the picture to your requirements.

- 2. You can adjust the contrast, brightness and colour values with the **VOL+/VOL** Buttons, depending on the preset. Contrast and brightness are only available if the PRESET Menu Point has been set at MANUAL.
- 3. Format:

The required picture format can be set with the **VOL+/VOL** Buttons. This setting can also be carried out directly outside the Picture Menu with the **ARC** Button.

- > AUTO: The device selects the picture setting suitable to the channel transmitted at the time independently and adjusts it continuously to the channel in this mode.
- 4:3: This setting sets the side ratios of the picture at 4:3 for traditional television programs. Black bars appear on both sides of the screen.
- PANORAMA: Adjusts a 4:3 video source to the 16:9 ratio, where the corners of the picture are mainly stretched. This reduces distortion in the center of the picture.
- CINEMA: Some DVD films or Cinemascope broadcasts do not fill the upper and lower edges of the screen. The Cinema function stretches the height, to fill the screen.
- WIDE PICTURE 16:9: 16:9 broadcasts are reproduced without distortion. 4:3 video sources are stretched evenly to fill the screen. Distortion arises both in the centre and at the corners of the picture here.
- 4. Tint:

The colour impression can be changed for NTSC images (e.g. video cassettes from the USA) with the **VOL+/VOL** Buttons.

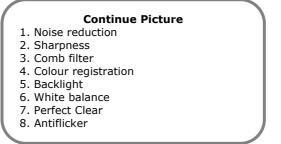
5. PC Settings:

This Point can only be selected in PC Mode. See chapter "11. PC Mode" on page 28 for a more detailed explanation.

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### **ADDITIONAL PICTURE SETTINGS**

Move the cursor to ADDITIONAL PICTURE SETTINGS with the **P+/P-** Buttons and press the **MENU** Button.



Further fine adjustments in relation to the impression made by the picture can be carried out in this Menu.

1. Noise Reduction:

The picture quality can be improved, in the case of grainy pictures with this function. The AUTOMATIC/OFF/WEAK/MEDIUM/LOUD settings can be selected through a menu with the **VOL+/VOL-** Buttons or the **MENU** Button.

The device will adjust the noise reduction automatically to the reception quality at the AUTOMATIC setting. The MEDIUM and LOUD settings should only be selected in the case of a heavily distorted picture, because jerky movements can arise if the picture content is moving fast. This setting can be set individually for each channel slot.

2. Sharpness:

The picture sharpness can be adjusted to your personal requirements with the **VOL+/VOL-** Buttons. You reach the Settings Mode by pressing the **MENU** Button. The menu is faded out, in order to be able to assess the picture, and the setting can be carried out through a setting bar. This setting can be set individually for each channel slot.

3. Comb Filter:

Disruptive wave lines in check patters in the picture content can be avoided by activating this function.

4. Colour Registration:

This function serves to even out differences arising between the coloured parts of the picture and the picture contours.

The setting can take place in the Menu with the **VOL+/VOL-** Buttons. You also reach the Settings Mode, by pressing the **MENU** Button. The menu is faded out and it is possible to carry out the setting through a setting bar. This setting can be established individually for each channel slot.

5. Backlight (Only active in the case of LCD TV devices – not in the case of plasma TVs): The brightness of the background lighting of the TV can be controlled with this function. You can choose between the WEAK/ MEDIUM/ NORMAL/ FULL settings through one menu with the VOL+/VOL- Buttons or the MENU Button.

#### 6. White Balance:

You can adjust the whiteness impression to your requirements in three stages with the **VOL+/VOL-** Buttons.

7. Perfect Clear:

You can activate a special digital Picture Improvement Mode with the **VOL+/VOL-** Buttons under this Point.

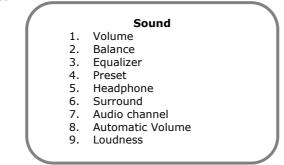
 Antiflicker (only active in the case of Plasma-TVs- not in the case of LCD-TV-devices): Disruptive, large-surface flickering can be reduced by activating this function. However, quick movements will become less sharp and jerky through this.

## SOUND (BALANCE, EQUALIZER, ETC.)

Different settings in relation to the sound reproduction of your TV can be made in this Menu.

Variation 1: Press the **BLUE** Button to reach the Sound Menu directly.

Variation 2: Press the **MENU** Button to call up the Main Menu, set the cursor on SOUND by means of the **P+/P-** Buttons and call up the associated Menu by means of the **MENU** Button.



1. Volume:

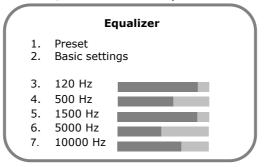
This Point corresponds to the volume setting, which can also be regulated directly outside the Menu with the **VOL+/VOL-** Buttons.

2. Balance:

Differences in volume between the left and the right loudspeaker can be evened out here, managed around an optimum sound impression, if your viewing position in front of the TV is not central.

3. Equalizer:

You can increase or reduce individual frequencies of the sound reproduction at this Point, as you can in the case of your stereo equipment. It is only possible to select this Menu Point if the PRESET Menu Point is set at MANUAL. Set the Selection Bar at EQUALIZER by means of the P+/P- Buttons and press the **MENU** Button.



You can choose between POP/ CLASSIC/ LANGUAGE/ JAZZ/ FLAT Equalizer presettings under PRESET. The selection is made either through the VOL+/VOL- Buttons or through a Menu that can be reached through the MENU Button.

Each Equalizer preset corresponds to a particular predetermined setting in relation to increasing or lowering the individual frequencies to achieve particular sound effects.

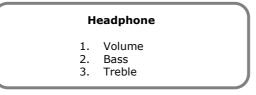
The individual frequencies cannot be changed and are thus presented as grey, if one of the presets previously listed has been selected.

- You will be able to set the sound reproduction of your TV for the frequencies given according to your personal perceptions, if the MANUAL setting under PRESET is selected. Move the Selection Bar to the relevant frequency with the P+/P- Buttons and carry out the setting by means of the VOL+/VOL- Buttons.
- You can return to the preset basic values by calling up the basic settings, if you are not satisfied with your changes. To do this, set the Selection Bar on BASIC SETTINGS with the P+/P- Buttons and press the MENU Button.
- 4. Preset:

Fast selection for the equalizer presets – see Equalizer

5. Headphones:

You can adjust the volume, bass and treble settings for headphones under this Point. Move the Selection Bar to HEADPHONES with the P+/P- Buttons and call up the relevant Menu by pressing the **MENU** Button. The values can be changed by means of the **VOL+/VOL-** Buttons.



6. Surround Sound:

The different NORMAL/WIDE/CINEMA surround sound settings can be selected through a Menu by means of the **VOL+/VOL-** Buttons or by pressing the **MENU** Button.

**Note:** *Cinema Surround* is a technology certified by Dolby Laboratories, which creates a virtual surround sound experience with only two loudspeakers through the use of Dolby Pro Logic.

*Cinema Surround* reproduces all original multi-channel audio information and gives the listener the impression of being surrounded by additional loudspeakers

7. Audio Channel:

You can select the audio channel with this function. For example, it offers the possibility of choosing between two languages in the case of dual language broadcasts.

You can choose between the STEREO/ MONO/ DUAL SOUND A/ DUAL SOUND B/ MONO C settings either with the **VOL+/VOL-** Buttons or through a Menu, accessible by means of the **MENU** Button, after you have set the Selection Bar at AUDIO CHANNEL with the **P+/P-** Buttons.

The sound channels that can be selected are dependent on the broadcast that you are watching at the time. Settings that cannot be selected are represented in grey. The setting that you make in this Menu will be set back after a channel slot change.

If you want a long-term change to the audio channel on one station (e.g. you want to always receive the second language of one station), make this setting in the PROGRAM EDIT Menu – see chapter "Setting channels manually" on page 20. You will also find a more description in relation to the possible settings in this section.

8. Automatic Volume:

The volume of your TV will be regulated automatically after this function has been activated, so that loud sound passages (e.g. during advertising breaks) are no longer disruptive.

9. Loudness:

You can switch a volume-dependant sound adjustment on or off under this Point.

# 8. TV MODE ADJUSTMENT

### **ADJUSTING TV SETTINGS**

- 1. Select "TV" mode as signal source using the **TV** key on the remote control.
- 2. Press the Menu key and select TV on the screen menu.

|    | Main Menu     |   |
|----|---------------|---|
| 1. | Picture       |   |
|    | Sound         |   |
| 3. | Program table |   |
| 4. | Installation  |   |
| 5. | Child lock    |   |
| 6. | Sleeptimer    |   |
| 7. | •             |   |
| 8. | Games         | ) |
|    |               |   |

3. Select the PROGRAM TABLE Menu Point with the **P+/P-** Buttons and press the **MENU** Button.

#### **PROGRAM TABLE**

The program table indicates the names and numbers of the channels. You can change program names, edit, delete, add or move programs or carry out fine adjustments in this list.

| 1 |   |             | Program table | 1                                      |  |
|---|---|-------------|---------------|--|--|
|   | SCART1<br>SCART2<br>AV.SV<br>PC<br>TV<br>TV<br>TV | 1<br>2<br>3 | ARD<br>ZDF    | TV<br>TV<br>TV<br>TV<br>TV<br>TV<br>TV |  |
| l | • Delete  | e ● Mo      | ve • Edit     |  |  |

Note: The SCART1, SCART2, AV.SV and PC programs cannot be deleted or moved.

#### DELETE A PROGRAM

- 1. Go to the program in the program table that you want to delete with the help of the **P+/P-/Vol+/Vol-** Buttons.
- 2. Press the **RED** Button to call up the delete function directly or call up an Edit Functions Menu with the **MENU** function and select DELETE.
- Now, you will reach the security query. Select DELETE with the assistance of the P+/P-Buttons and carry the action out directly with the MENU Button or by pressing the RED Button again.

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#### MOVING AND SORTING CHANNELS

- 1. Go to the channel slot in the program table that you would like to move or sort with the assistance of the **P+/P-/Vol+/Vol-** Buttons.
- 2. Press the **GREEN** Button to call up the sorting function directly or call up an Edit Functions Menu with the **MENU** function and select MOVE.
- 3. The **respective** channel will now be marked in colour.
- 4. Move the channel to the channel slot that you require with the assistance of the **P+/P-**/**Vol+/Vol-** Buttons.
- 5. Store the changes that you have carried out by pressing the **GREEN** or the **MENU** Button again.

#### **CHANGING THE NAMES OF CHANNELS**

- 1. Go to the channel slot that you would like to edit with the help of the **P+/P-**/**Vol+/Vol-** Buttons.
- 2. Either press the **YELLOW** Button to call up the processing function directly or call up an Edit Functions Menu with the **MENU** function and select EDIT.
- 3. The screen will now display the CHANNEL EDIT or AV EDIT Menu:

#### Program edit 1. Frequency input 2. Tuning 3. Channel grid 4. Channel type 5. Channel number 6. Change name

7. TV-Standard

Colour standard
 Audio channel
 Adjustment
 Decoder

Change name
 Colour standard
 Adjustment

AV edit

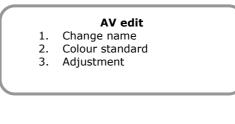
- Go to the CHANGE NAME Menu Point with the assistance of the P+/P- Buttons and press the MENU Button.
- Now, you can select the letters required with the P+/P- Buttons. You will reach the next position with the VOL+/VOL- Buttons (each channel name can be 8 symbols long). You will leave the name selection with the MENU or EXIT Button.
- 6. Press the **EXIT** Button and confirm that you would like to store the changes that you have carried out with YES.

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#### **SETTING CHANNELS MANUALLY**

- 1. Go to the channel slot in the program table that you would like to edit with the assistance of the **P+/P-/Vol+/Vol-** Buttons.
- 2. Either press the **YELLOW** Button to call up the processing function directly or call up an Edit Functions Menu with the **MENU** function and select EDIT.
- 3. Now the screen will display the PROGRAM EDIT or AV EDIT Menu:





4. Frequency entry:

Here, you can change the reception frequency or enter it directly. Position the Selection Bar at FREQUENCY ENTRY with the **P+/P-** Buttons. Now, you will be able to change the reception frequency with the **VOL+/VOL-** Buttons.

At the same time, attention should be paid that that the display bar of the 2nd TUNING Menu Point is positioned in the center, because the station is set optimally then.

You can also enter the reception frequency directly with the number Buttons by pressing the **MENU** Button. You will leave direct sound entry again with the **MENU** Button.

5. Channel grid:

The channel grid can be changed with the **MENU** Button (Menu) or the **VOL+/VOL-**Buttons. The channel grid represents the setting of the channels to the frequencies available and can vary according to the location (e. g. CCIR in Germany differs from the setting necessary in France).

6. Channel type:

The channel type can be changed with the **MENU** Button (Menu) or the **VOL+/VOL-**Buttons. It is possible to select between channels and special channels or special channels in individual states (e.g. C1 in France), depending on the setting of the channel grid.

7. Channel number:

You can enter the channel number of the channel slot that you require directly here. You can increase or decrease the current sound channel number with the **VOL+/VOL-** Buttons. A cursor will appear and you will be able to enter the channel number directly with the number Buttons when you press the **MENU** Button.

8. TV Standard:

The TV standard can be changed with the **MENU** Button (menu) or the **VOL+/VOL-**Buttons. Settings related to the transmission norm (location-dependant) of a station can be made here.

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#### 9. Colour Standard:

The colour standard can be changed with the **MENU** Button (menu) or the **VOL+/VOL-**Buttons. Changes to the colour norm of a station can be made here.

#### 10. Audio channel:

The preferred audio channel can be selected with the **MENU** Button (Menu) or the **VOL+/VOL-** Buttons. The device selects the optimum sound setting in accordance with the NICAM priority (a digital sound norm used by some stations) before stereo or mono, independently the AUTOMATIC position. Setting it to MONO can sometimes be advantageous in the case of audio problems on a stereo station. The second language on a dual language station can be selected with DUAL SOUND B. The MONO C setting is only relevant to NICAM stations that broadcast in several languages.

11. Adjustment:

The ADJUSTMENT Menu Point on this channel slot should be positioned at VCR, to avoid picture distortion (conversion to fast time constants), if you want to operate a video recorder through an HF channel slot (connection with aerial cable) or through an AV channel (connection with Scart cable). The setting can be made by means of the **MENU** Button (Menu) or the **VOL+/VOL-** Buttons.

#### 12. Decoder:

This setting is important for the operation of a decoder on the SCART/AV2 socket, in order to be able to receive encrypted stations. The setting can be made by means of the **MENU** Button (Menu) or the **VOL+/VOL-** Buttons.

The OFF setting usually means normal television operation without a decoder. The decoded picture signal is presented automatically at all other settings. The difference between the decoder settings consists of whether the respective station decrypts the sound additionally or not. The following Table is intended to explain the connections.

| Decoder Setting            | Station/Sound   |                        | Sta-<br>tion/Picture | Sound Output<br>Source          | Picture Presen-<br>tation of |
|----------------------------|-----------------|------------------------|----------------------|---------------------------------|------------------------------|
| Off                        | De              | crypted                | Decrypted            | ΤV                              | τv                           |
| External/Internal<br>Sound | Analog<br>Nicam | Encrypted<br>Decrypted | Encrypted            | Analog Decoder<br>NICAM TV      | Decoder                      |
| External Sound             | Analog<br>Nicam | Encrypted<br>Encrypted | Encrypted            | Analog Decoder<br>NICAM Decoder | Decoder                      |
| Internal Sound             | Analog<br>Nicam | Decrypted<br>Decrypted | Encrypted            | Analog TV<br>Nicam TV           | Decoder                      |

**Note:** Read the instructions for use of your decoder or ask the provider of the encrypted channel for the correct setting.

13. Press the **EXIT** Button and confirm that you want to store the changes carried out with YES.

**Note:** The settings described above are only necessary in exceptional cases (manual setting of a new station, connection of a decoder, etc.). The automatic APSAS station search carries out most of the settings independently.

#### **MANUAL ADDITION OF CHANNELS**

- Go to the first empty channel slot following the channel slots already stored in the program table with the P+/P-/Vol+/Vol- Buttons. Press the MENU Button and select the NEW TV signal source.
- 2. Now enter the channel type and subsequently the channel number or the relevant frequency. Check the remaining settings for correctness in relation to the required station(see chapter "Setting channels manually" from page 20).
- 3. Press the **EXIT** Button and confirm that you want to store the changes carried out with YES.

#### ADD NEW CHANNELS AUTOMATICALLY

This function is very useful if the range of channels in your reception area (e.g. on the cable network) is increased. An automatic station search, which will store all channels newly added since the last station search, is started.

- 1. Press the **MENU** Button to reach the Main Menu.
- 2. Select the INSTALLATION Point with the **P+/P-** Buttons and press the **MENU** Button again.

|     | Installation            |
|-----|-------------------------|
| 1.  | Select Location         |
| 2.  | Language                |
| 3.  | New installation        |
| 4.  | Search new programs     |
| 5.  | AV Settings             |
| 6.  | Switch on               |
| 7.  | Setting of all programs |
| 8.  | Basic settings          |
| 9.  | Start logo              |
| 10. | Service                 |
|     |                         |

 Select the SEARCH FOR NEW CHANNELS Menu Point with the P+/P- Buttons, press the MENU Button and select START. The AUTOMATIC STATION SEARCH Menu will now appear on the screen:

| ( |              | Automatical Search |  |
|---|--------------|--------------------|--|
| L | Frequency    |                    |  |
| L | Channel type |                    |  |
| L | Last station |                    |  |
| L | Found so far |                    |  |
| L |              | Cancel             |  |
|   |              |                    |  |

- 4. This Menu serves to display the progress of the station search so far. You can cancel the station search at any time with the **MENU** or the **EXIT** Button. No new stations will be stored in this case.
- 5. You will reach the program table when the station search has finished, as following the initial installation. New channels will have been added following the channels already available. Please refer to chapter "Program table" on Page 18, if you want to change the sorting or the names.

# 9. TELETEXT

Teletext is a free service that is broadcast by the majority of television stations and offers current information in relation to news, the weather, television programs, share prices, subtitles and other subjects. Your TV offers many useful functions for operating Teletext and multi-page text, storing sub-pages or fast navigation.

# TO OPERATE TELETEXT

- 1. Select a TV station on which Teletext is being transmitted.
- 2. Press the **TELETEXT** button once to appear the Teletext screen.
- 3. Press the **TELETEXT** button again to switch off Teletext. The previous program reappears.

# TELETEXT PAGE SELECTION

- 1. Enter the required Teletext page as a three digit numbers.
- 2. The selected page number is displayed at the top left corner of the screen. The Teletext page counter searches until the selected page number is located, so that the desired page is displayed on the screen.
- Fastext movement by the 4 coloured buttons. Four subject-heading pages can be selected quickly by pressing the corresponding coloured button Red, Green, Yellow, or Blue on the remote control handset. The function of the respective Colour Button is displayed at the lower edge of the picture (e. g. +/-, to turn on page forward/back or the title of the Teletext block to be reached).
- 4. Fast navigation with Page Catching: This function enables the fast selection of page numbers displayed on the current Teletext page. Navigate to the page number that interests you with the P+/P- Buttons (a flashing cursor appears at the same time) and press the MENU Button to call it up.
- 5. Some Teletext pages also contain sub-pages that are displayed at the lower edge of the picture. You can turn between the sub-pages forward and back by pressing the **POSITION/SIZE** Buttons.

# SELECT TELETEXT DISPLAY FUNCTIONS

Your TV offers you several possibilities of presenting several Teletext pages or the television picture and Teletext clearly at the same time.

1. Multi-page text:

This function presents several interconnected Teletext pages on one screen. Press the **DISPLAY** Button. You will receive one large and two small display windows. The main page will be presented in the large picture; the associated, following sub-pages or those pages that can be selected quickly by pressing the **YELLOW** or **BLUE** Buttons are presented in the small pictures. Press the **DISPLAY** Button again to return to the normal, full Teletext picture.

2. Split Screen:

Press the **PIP ON/OFF** Button (= divided screen), to display the current television picture as split screen, in addition to Teletext.

- 3. Television picture in Multi-Page Text: The television picture in the upper field of the two small Teletext pictures will be presented in Multi-Page Mode by pressing the PIP **ON/OFF** Button again.
- 4. Teletext as Picture in Picture: The television picture is presented as a full picture and the current Teletext page is presented as a small picture in the picture inserted into the upper right screen area, by pressing the **PIP ON/OFF** Button again.

## **USEFUL FEATURES FOR TELETEXT**

# **INDEX**

> Press this button to select the index page that displays the list of Teletext contents.

# STOP

The Teletext page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time on a sub-page.

- Press STOP button to stop the automatic page change. The STOP symbol will be displayed at the top left-hand corner on the screen and the automatic page change will be stopped.
- > Press **STOP** button again to continue.

# 

In the Teletext mode, pressing **INTERRUPT** button will switch the screen to the TV mode while waiting for the next text page.

- > Select required page number in Teletext mode.
- Press INTERRUPT button to switch to TV mode while waiting for the text page. The upper and lower row of the videotext page information is displayed for 6 seconds, before it disappears.
- When the required text page is found, the page number is displayed in a black box in the upper left corner.
- > Press **INTERRUPT** button again to revert to Teletext mode.

# 🖃 REVEAL

- Press this button once to display concealed information, such as solutions of riddles, puzzles, or a quiz.
- > Press this button again to conceal the revealed answers.

# 🕏 EXPAND

Select double height text.

- $\succ$  Press this button to enlarge the top half of the page.
- > Press this button again to enlarge the bottom half of the page.
- > Press this button once more to return to the normal display.

#### **CONNECTION OF AN EXTERNAL DEVICE TO THE SCART SOCKET**

Please connect the SCART/AV1 or the SCART/AV2 socket of the TV to the device to be connected with a EURO AV cable (Scart cable), to connect a video recorder, a DVD player, a SAT receiver or similar to one of the two Scart sockets of your TV, for example.

**Note:** Please pay attention to the instruction for use of the device to be connected.

#### **CONNECTING A CAMERA RECORDER**

Connect the device to the front AV.SV socket of your TV with a commercially available cable (cinch cable and/or S-video cable), in accordance with the coloured cable and socket identification, to connect a camera recorder.

**Note:** Please pay attention to the instructions for use of your camera recorder.

#### **CONNECTING A VIDEO RECORDER TO THE AERIAL SOCKET**

Please connect the aerial input of the TV to the aerial output of your video recorder by means of an aerial cable, to connect a video recorder to the aerial socket of your TV. Please connect your domestic aerial to the aerial output of your video recorder.

You can choose any channel slot on the TV to represent the picture and sound signals of your video recorder. The selected channel slot must be coordinated with the station frequency of the aerial output of your video recorder to achieve this (usually between channels 30 and 40) – see chapter "Setting channels manually" on Page 20.

You should set the '10th ADJUSTMENT' Menu Point in the PROGRAM EDIT Menu to VCR after carrying out the tuning, to avoid picture distortion.

**Note:** Please pay attention to the instructions for use of your video recorder.

## **CONNECTING A DECODER**

You need a decoder to be able to receive encrypted channels. Please connect it to the SCART/AV2 socket of your TV by means of a EURO AV cable (Scart cable). Please refer to the chapter "Setting channels manually" on page 20 for advanced settings in relation to decoder operation.

**Note:** Please pay attention to the instructions for use of your decoder.

## CONNECTING A PC OR A MULTIMEDIA SOURCE OF VIDEO

Your TV device offers you the possibility of connecting a PC or a source of video with VGA, DVI or components output (a DVD player, for example). Your TV device can represent both analog and digital input signals. Connect the DVI-I socket of the TV device to the video card of your PC or to your source of video. Connect the line output of your PC or the audio output of your source of video to the PC audio input (black jack socket next to the DVI-I input on the back of the device), in order to transmit the sound signals at the TV device. You may possibly have to use appropriate adapters or adapter cable for the connections.

**Note:** Please pay attention to the Instructions for Use of your PC and the sound and video card or your source of video and the technical data of your TV device, in order to select the necessary settings for the resolution and the refresh rate.

## SETTINGS FOR EXTERNAL DEVICES (PICTURE, SOUND, NAME, ETC.)

Please refer to the Chapters "Picture (Contrast, Colour, Brightness, etc.)" on Page 13 and "Additional picture settings" on Page 15, to change the picture for AV settings. The functions described in these Chapters also apply to the AV positions.

You will find more precise descriptions in chapter "Sound (Balance, Equalizer, etc.)" on page 16, if you want to adjust the sound. The points described there also apply to the AV settings.

You will find more precise descriptions in Chapters "Changing the names of channels" and "Setting channels manually" on Pages 19 and 20, if you want to adjust the channel names or the channel settings.

## **AV MENU SETTINGS**

The type of input signal, the source of the output signal and the volume offset in comparison the basic volume can be established for the Scart 1, Scart 2, and AV.SV AV settings in this Menu.

- 1. Press the **MENU** Button to reach the Main Menu.
- 2. Select the INSTALLATION Menu Point with the **P+/P-** Buttons and press the **MENU** Button again.
- 3. Position the Selection Bar on AV SETTINGS Menu Point by means of the **P+/P-** Buttons and press the **MENU** Button again. This will take you to the following Menu:

|    |       | AV Settings   |
|----|-------|---------------|
| 1. | AV1   | Signal type   |
| 2. | AV1   | Video Out     |
| 3. | AV1   | Volume Offset |
| 4. | AV2   | Signal type   |
| 5. | AV2   | Video Out     |
| 6. | AV2   | Volume Offset |
| 7. | AV.SV | Signal type   |
| 8. | AV.SV | Volume Offset |
|    | _     |               |

4. AV 1 Signal type:

You can choose between different settings for the signal type supplied by an external device attached to the SCART/AV 1 socket with the **VOL+/VOL-** Buttons or by pressing the **MENU** Button (Menu). Please always bear in mind that your external device must also supply the respective signal type to achieve perfect pictures.

**Note**: Please pay attention to the instructions for use of the connected device.

> VIDEO/RGB AUTO:

FBAS (e. g. Video recorder) and RGB signals (e. g. playing console) can be represented at this setting, if this function is supported, automatically recognized and presented by the device connected.

➢ S-VIDEO:

Serves to connect S-VIDEO signals. In the case of this signal type, the picture and the colour signals are separate, in order to avoid disruptive wave lines in checked patterns.

> RGB:

Serves to connect sources of RGB signal sources (e. g. playing console) that do not support automatic recognition.

#### > YCrCb:

A YcrCb signal that is the output of a many DVD players can be represented at this setting. It will be recognized automatically whether the pictures are transmitted in the line interlaced or full picture (progressive) process.

> YPrPb:

A YprPb signal that is the output of a many DVD players can be represented at this setting. It will be recognized automatically whether the pictures are transmitted in the line interlaced or full picture (progressive) process.

5. AV1 Video Output:

You can choose between different settings for the output signal emitted at the SCART/AV 1 socket with the **VOL+/VOL-** Buttons or by pressing the **MENU** Button (Menu).

Note: No signals can be emitted in the Readiness Mode!

> AUTO:

The pictures and sounds presented by the device are output at the SCART/AV 1 socket (exception: The device is at the SCART 1 AV setting).

≻ TV:

The signal received through the aerial is always output at the SCART/AV 1 socket (even if your TV is operated at one AV setting).

AV2 (Copy Mode):

The picture and sound signal coming from the SCART/AV 2 socket is emitted at the SCART/AV 1 socket, independently of the mode (TV, PC, etc.) in which the TV is operating. This function is very useful for transferring from one external device to another.

> AV.SV (Copy Mode):

The same function as under the AV2 setting, with the difference that the picture and sound signals are emitted from the front AV.SV input, through the Cinch sockets to the SCART/AV 1 socket (e. g. to transfer from a video camera to a video recorder).

6. AV1 Volume Offset:

You can establish a volume offset (shifting – quieter or louder) for the sound input signals at the SCART/AV 1 socket, in comparison to the basic volume of your device, with the **VOL+/VOL-** Buttons.

- AV2 Signal Type/ AV2 Video Output/ AV2 Volume Offset: The settings and functions for the AV position described above also apply to the AV2 position.
- 8. AV.SV Signal type:

You can choose whether the picture signal of your external device (e.g. camera) is processed by the video input (yellow) or by the S-video input (4-pole black socket) with the **VOL+/VOL-** Buttons or by pressing the **MENU** Button (Menu). In both cases, the sound signal is processed by the red and white cinch socket.

9. AV.SV Volume Offset:

You can establish a volume offset (shifting – quieter or louder) for the sound input signals at the cinch sockets at the front AV.SV input, in comparison to the basic volume of your device, with the **VOL+/VOL-** Buttons.

10. You leave the Menu with the **EXIT** Button.

# 11. PC MODE

## CONNECTION

Your TV device offers you the possibility of connecting a PC or a source of video with VGA, DVI or components output (a DVD player, for example). Your TV device can represent both analog and digital input signals. Connect the DVI-I socket of the TV device to the video card of your PC or to your source of video. Connect the line output of your PC or the audio output of your source of video to the PC audio input (black jack socket next to the DVI-I input on the back of the device), in order to transmit the sound signals at the TV device. You may possibly have to use appropriate adapters or adapter cable for the connections.

**Note:** Please pay attention to the Instructions for Use of your PC and the sound and video card or your source of video and the technical data of your TV device, in order to select the necessary settings for the resolution and the refresh rate.

#### SETTINGS IN THE PC MODE

Press the **PC** Button to switch to the PC Mode. All pictures and sound in the PC Mode function precisely as in TV Mode.

Press the **MENU** Button to reach the Main Menu, select the PICTURE Menu Point and press the **MENU** Button again. Move the Selection Bar to the PC SETTINGS Point with the **P+/P-** Buttons and press the **MENU** Button again. You will reach the Menu for the PC SETTINGS:

#### PC settings

- Mode
  Change name
- 3. Input
- 4. Horizontal position
- 5. Width
- 6. Vertical position
- Phase
  Frequency

- 1. Mode:

This Point shows whether there is a signal at the DVI-I input socket of the TV. It is not possible to reach the settings for the picture presentation as long as NO SIGNAL is displayed (displayed in grey).

2. Change name:

It is possible to give a name to the PC setting. Press the **MENU** Button to reach the Entry Mode (cursor appears). Now, you will be able to select the symbols with the **P+/P-** Buttons and change the position with the den **VOL+/VOL-** Buttons. Leave the Entry Mode by means of the **MENU** or the **EXIT** Button.

3. Input:

With the **VOL+/VOL** Buttons or by means of a list of selections that can be reached by pressing the **MENU** Button; it is possible to choose between the AUTO/ANALOG PC/ANALOG VIDEO/DVI PC/DVI VIDEO Settings.

- AUTO: Your TV will recognize the type of signal (analog or digital) at the DVI-I socket automatically.
- > ANALOG PC / ANALOG VIDEO:

In this setting, your TV will expect an analog input signal at the DVI-I socket. Please pay attention to the correct selection of the output on your video adapter (VGA or DVI-A).

> DVI PC / DVI VIDEO:

In this setting, your TV will expect a digital input signal at the DVI-I socket. Please pay attention to the correct selection of the output on your video adapter (DVI or DVI-D).

**Note:** The TV is equipped with an automatic, complex recognition of the type and source of the signal. Nevertheless, incorrect recognition can arise because of the different tolerances of your signal source. In this case, use the manual settings for the input

4. Horizontal position:

You can change the horizontal position of the PC image with the **VOL+/VOL-** Buttons.

- 5. Width: You can change the width of the PC image with the **VOL+/VOL-** Buttons.
- 6. Vertical Position:

You can change the vertical position of the PC image with the **VOL+/VOL-** Buttons.

7. Pixel phase:

You can optimize the presentation of text on the TV (e.g. in the case of quivering letters) with the **VOL+/VOL-** Buttons.

8. Frequency:

Potential disruptions to the picture (unsteady picture or wave lines) can be balanced with the **VOL+/VOL-** Buttons. This setting should only be changed in the case of problems.

9. You leave the Menu with the **EXIT** Button.

**Note:** The device is provided with standardized pre-settings for the above setting values. Nevertheless, manual adjustment of the settings values may be necessary, to achieve undisrupted reproduction and complete reproduction, because of deviating signals of your video adapter or your video source!

# **12. COMFORT FUNCTIONS**

## **PICTURE IN PICTURE (PIP)**

You can use the PIP function to display two programs at the same time.

- 1. Press the **PIP ON/OFF** Button on the remote. Channel slot 1 will be displayed as a small picture when you call up the PIP function for the first time, after switching the TV on.
- You will now be able to have the required channel slot or AV setting (SCART 1, PC, AV, SV, etc.) displayed in the small picture with the **PIP SOURCE** ▲ / ▼ -Buttons. The PIP channel viewed most recently will be displayed if you switch off the PIP function and switch it on again later.
- 3. The large and the small picture can be exchanged by pressing the **PIP ON/OFF** Button for about 2 seconds, if the small picture has already been displayed.
- 4. You can choose the corner of the large picture in which the small picture should be displayed with the PIP **POSITION** Button.
- 5. You can select 3 different sizes for the small picture with the PIP **SIZE** Button.

**Note**: Not all signal combinations of large and small pictures are necessary. In these cases, the OSD channel display shows 'NoPIP'.

## MULTI-IMAGE (STATION OVERVIEW) – GREEN BUTTON

You will be able to call up the Multi-Image Function by pressing the **GREEN** Button in the TV mode. This function will displays an overview of 12 channels each time.

The channel selected – indicated by a frame - will be reproduced with running image and sound; the other channels will be regularly updated.

You will be able to move the frame and change to other channels with the aid of the **P+/P-/Vol+/Vol-** Buttons. You will be able to switch to the previous or subsequent 12 channels by moving the frame beyond the screen edge.

Operate the **MENU** Button, in order to represent the selected channel as a complete image.

## CHILD LOCK

You can block all the functions of the device with the Child Lock. The entry of a PIN will be required automatically when the device is switched on again, if the Child Lock has been activated and the device has been switched off.

The picture and the sound will not be switched on and the operation of the device will not be permitted until a PIN number has been entered.

1. Press the **MENU** Button. The Main Menu will be displayed.

| $\bigcap$ |    | Main Menu     |
|-----------|----|---------------|
|           | 1. | Picture       |
|           | 2. | Sound         |
|           | 3. | Program table |
|           | 4. | Installation  |
|           | 5. | Child lock    |
|           | 6. | Sleeptimer    |
|           | 7. | Swap function |
|           | 8. | Games         |
|           |    |               |

2. Move the Selection Bar to the CHILD LOCK Menu Point with the **P+/P-**Buttons and press the **MENU** Button to call up the sub-menu.



- 3. Press the **MENU** Button and then enter a single digit number = your PIN number. The CHILD LOCK Point cannot be selected as long as no PIN number has been entered; the Point cannot be selected and is represented as grey.
- 4. The CHILD LOCK can be switched on under the relevant Menu Point after entering your PIN number. You will have to call up the CHILD LOCK Menu again and set the CHILD LOCK to OFF after entering your PIN number, in order to switch off the Child Lock again later.

## SLEEP TIMER

The Sleep Timer switches the device into the Readiness Mode automatically according to the period of time selected by you.

- Variation 1: Press the **SLEEP** Button to reach the Sleep Timer Menu directly.
- Variation 2: Press the **MENU** Button to call up the Main Menu, position the Selection Bar on Sleep Timer by means of the **P+/P-** Buttons and call up the relevant Menu by means of the **MENU** Button.



You can set the switching off time in steps of 5 MIN./10 MIN./15 MIN./30 MIN./1 HOUR/2 HOURS/OFF by operating the **SLEEP** Button or the **VOL+/VOL-** Buttons, or call up this Menu by pressing the **MENU** Button. The OFF setting means that the Sleep Timer is switched off.

You can check how many minutes still remain until switching off at any time in the CURRENT COUNTER line by calling up the Sleep Timer Menu again.

English

Dansk

Português

## SWAP FUNCTION

The Swap Function enables you to change between two channels positioned separately or to switch back to a preferred channel fast. For example, if you want to switch channels during an advertising break, you can switch back quickly at any time, by pressing the **RTN** Button, to see whether the advertising break has already finished and your desired program is continuing. Each further operation of the **RTN** Button will lead to a switch between the channel most recently viewed and your preferred channel.

#### **E**STABLISH SWAP CHANNEL (**P**REFERRED CHANNEL)

Variation 1: Press the **MENU** Button to call up the Main Menu. Position the Selection Bar on SWAP FUNCTION by means of the **P+/P-** Buttons and press the **MENU** Button again. You can choose between MANUAL/ 3 MIN/ 5 MIN/ 10 MIN settings with the **VOL+/VOL-** Buttons or through a Menu that can be reached by means of the **MENU** Button.

The Swap Channel must be defined in accordance with Variation 2 in the case of the MANUAL setting. The channel viewed is automatically defined as the Swap Channel after the period has expired whenever a period of time is set.

SWAP CH will be faded in into the left upper corner. Now, you will be able to select any other channel slot and switch between the channel viewed and your Swap Channel by pressing the **RTN** Button for a short time. The channel that is your preferred channel will be displayed for 4 seconds at each channel change.

Variation 2: Press on the channel slot to which you want to revert quickly as long as the **RTN** Button appears, until SWAP CH OSD is faded in. You will now have established your preferred channel manually.

However, if a period of time has been set in the SWAP FUNCTION Menu, your preferred channel will change automatically with your television viewing.

#### **REVERTING TO THE FACTORY SETTING**

This function sets all settings of the TV, such as brightness, colour, contrast, sharpness and white balance, etc. back again to the status of delivery from the factory.

- 1. Press the **MENU** Button to reach the Main Menu.
- 2. Select the INSTALLATION Point with the **P+/P-** Buttons and press the **MENU** Button again.
- 3. Select the FACTORY SETTINGS Point with the **P+/P-** Buttons and press the **MENU** Button again. Now, select SET and confirm this selection with the **MENU** Button.

**Note:** You can set most important picture and sound (brightness, colour, contrast, volume) settings back to the factory settings by pressing the **RESET** Button for a longer period.

## SWITCHING ON MODE

You can establish your preferred Operating Mode of the TV after switching it on with this setting.

- 1. Press the **MENU** Button to reach the Main Menu.
- 2. Select the INSTALLATION Menu Point with the **P+/P-** Buttons and press the **MENU** Button again.
- Move the Selection Bar to the SWITCH ON WITH Menu Point with the P+/P- Buttons. Now, you will be able to choose between the PC/CH 1/LAST CH/AV/INSTALLATION modes of operation by means of the VOL+/VOL- Button, or by pressing the MENU Button (Menu).
  - > PC: Switch on in PC Operating Mode
  - > CHANNEL 1: Switch on with channel slot 1
  - > LAST CHANNEL: Switch on with the channel most recently viewed.
  - > AV: Switch on with AV setting most recently used.
  - INSTALLATION: Switch on as at the status of the initial installation see chapter "6. APSAS First Time Installation"on page 10.

#### **SETTINGS FOR ALL CHANNELS**

- 1. Press the **MENU** Button to reach the Main Menu.
- 2. Select the INSTALLATION Menu Point with the **P+/P-** Buttons and press the **MENU** Button again.
- 3. Select the SETTING ALL CHANNELS Menu Point with the **P+/P-** Buttons and press the **MENU** Button again.

#### Settings of all programs

- 1. Sharpness setting
- 2. Noise reduction setting
- 3. Decoder setting
- 4. Sharpness Setting:

This function sets the sharpness setting for **all** channels. You can choose between settings 0-3 through a Menu by pressing the **MENU** Button. There is a more detailed description of this function in chapter "Additional picture settings" on page 15.

5. Noise Reduction Setting:

This function sets the noise reduction setting for **all** channels. You can choose between the AUTOMATIC/ OFF/ WEAK/ MEDIUM/ LOUD settings through a Menu by pressing the **MENU** Button.

You will find a more detailed description of the settings in chapter "Additional picture settings" on page 15.

6. Decoder Setting:

This function sets the decoder function for **all** channels. You can choose between the OFF/ EXTERNAL/ INTERNAL SOUND/ EXTERNAL SOUND/ INTERNAL SOUND settings through a Menu by pressing the **MENU** Button.

You will find a more detailed description of the settings in chapter "Setting channels manually" on page 20.

# TIME DISPLAY 🕘 TIME

In TV Mode, the time will be displayed by pressing this Button.

Press the **TIME** Button while your TV is transmitting a television channel with Teletext transmission. The current time will be displayed in the form of a digital clock in the right upper corner of the screen.

The display will switch to an analog clock if the **TIME** Button is pressed again. The time display will disappear as soon as the **TIME** Button is pressed a third time.

#### SWITCH PICTURE FORMAT - ARC

You can change the representation of the picture format of your TV quickly with the **ARC** Button. You will find a more detailed description in relation to the possible picture formats in chapter "Picture (Contrast, Colour, Brightness, etc.)" on page 13.

#### SWITCH PICTURE PRESETS - APC

You can choose between the possible DAYTIME/EVENING/MANUAL presets quickly with the **APC** Button. You will find a more detailed description in relation to these presets in chapter "Picture (Contrast, Colour, Brightness, etc.)" on page 13.

## **FREEZE FRAME FUNCTION – YELLOW BUTTON**

You can freeze the picture at any time by pressing the **YELLOW** Button. Operate the **YELLOW** Button again to let the picture continue.

## GAMES

Your TV is equipped with four games and an associated high score list.



Move to the game that you would like to play with the aid of the **P+/P-** Buttons and press the **MENU** Button to call up the game.

The control of the games functions with the **P+/P-/Vol+/Vol-** Buttons. Special functions (e.g. shooting) can be called up with the **MENU** Button.

You will be requested to enter your score in the High Score List after ending the game, provided that you have achieved a new high score. Now, you will be able to select the letters required with the **P+/P-** Buttons. You will reach the next position with the **VOL+/VOL-**Buttons. You will leave the name entry with **MENU** or **EXIT** Button.

You can end the games early by pressing the **EXIT** Button.

# 13. TROUBLESHOOTING

Many times, problems have simple causes. We would like to give you some tips to solve some common problems. Should these tips not help, please call us!

#### There is no picture or sound.

- Make sure the AC adapter is properly inserted in the power outlet.
- Make sure the input mode is set to correctly.
- Make sure the main power switch of the main unit is on.

#### There is no picture. There is no picture from AV.

- Make sure the Contrast/Brightness is properly adjusted.
- Make sure all external devices are connected properly.
- Check that the correct AV setting has been selected.

#### There is no sound.

- Make sure the volume is not set to minimum.
- Make sure the sound is not set to mute.
- Make sure that headphones are not connected.

#### There is no picture or sound, just noise.

> The reception may be weak. Make sure the aerial is not disconnected.

#### Picture is not clear.

- The reception may be weak.
- Make sure the aerial is not disconnected.

#### The picture is too bright or too dark.

• Check the settings of contrast / brightness / Backlight in the menu picture settings.

#### Remote control does not work.

- Check the batteries in the remote control are not flat.
- Make sure the remote sensor window is not under strong lighting.
- > Switch the device on and on again with the main switch on the back of the device.

#### The picture is not sharp.

- The reception may be weak.
- Make sure the aerial is not disconnected.
- Check the settings of the picture sharpness and the noise reduction in the Picture Menu.

#### The picture jitters.

- The reception may be weak.
- Make sure the aerial is not disconnected.

#### The picture is doubled or tripled.

- Make sure the aerial is facing the right direction.
- There may be reflected electric waves from mountains or buildings.

#### The picture is spotted.

- > There may be interference from automobiles, trains, high voltage lines, neon light, etc.
- > There may be interference between the antenna cable and power cable. Try moving them further apart.

#### There are stripes on the screen or colours fade.

- Is the unit receiving interference from other devices? Transmission antennas of radio broadcasting station and transmission antennas of amateur radio and cellular phones may also cause interference.
- Place the unit as far apart as possible from device that may cause possible interference.

#### The Child lock cannot be deactivated.

• Enter 1973 as the PIN number. The devices should be fully functioning again with this.

# 14. OTHER QUESTIONS

## **DO YOU REQUIRE ADDITIONAL SUPPORT?**

If the suggestions in the above section have not solved your problem, please contact the hotline. We will try and help you over the telephone. However, before you contact your Technology Center, please keep the following information available:

- What additional peripheral devices are you using?
- What messages are appearing on the screen?
- During which operational step did the problem arise?
- How does your computer configuration look, if you have connected a PC to the device?
- What software were you using when the error occurred, if you have connected a PC to the device?
- What steps have you already taken to solve the problem?
- Give us your Customer Number, if you have already received one.

## WARRANTY

We warrant to our customers that this product is free from defects in materials and workmanship as follows: for a determined period from the date of original purchase, defective parts or a defective product returned to a repair facility or an Authorized Service Facility ("ASF") for such product, as applicable, and proven to be defective upon inspection, will be exchanged for new or comparable rebuilt parts, or a refurbished product, as determined by the repair facility or the ASF.

Limited warranty repair or replacement shall not extend the original limited warranty period of the defective product. This limited warranty does not cover any supplies or accessories, including but not limited to: software, blank media, user-installed drives, etc.

EXCLUSIONS: this limited warranty does not apply, and you will have no remedy hereunder with respect to (a) products that have been modified, opened, repaired or otherwise altered, except by an ASF, (b) products that have been damaged or destroyed after delivery to the customer, (c) any third party software, interfaces, parts, supplies, peripherals or other products or any defects resulting from use of the product in connection with such third party products, (d) defects resulting from improper or inadequate maintenance, calibration or site preparation, (e) defects resulting from any misuse, abuse, accident, neglect, negligence or any use other than in accordance with the handling or operating instructions provided, (f) defects resulting from exposure to unusual physical or electrical stress or from any operation other than in accordance with the published environmental specifications for the product.

TO THE EXTENT ALLOWED UNDER APPLICABLE LAW, THE ABOVE WARRANTIES ARE EXCLUSIVE AND NO OTHER WARRANTY OR CONDITION, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED AND WE SPECIFICALLY DISCLAIM ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND NO IMPLIED WARRANTY APPLIES TO THE PRODUCT AFTER THE APPLICABLE PERIOD OF THE EXPRESS LIMITED WARRANTY STATED ABOVE. Some countries, states or provinces do not allow exclusions or limitations on the duration of an implied warranty, so the above limitation or exclusion might not apply to you. This limited warranty gives you specific legal rights and you might also have other rights that vary from country to country, state to state, or province to province.

Our limited warranty is valid in any country or locality where we have a support presence for this product and where we have marketed this product. The level of warranty service you receive may vary according to local standards. We will not alter form, fit or function of the product to make it operate in a country for which it was never intended to function.

TO THE EXTENT ALLOWED UNDER APPLICABLE LAW, THE REMEDIES IN THIS LIMITED WARRANTY STATEMENT ARE YOUR SOLE AND EXCLUSIVE REMEDIES. EXCEPT AS INDICATED ABOVE, IN NO EVENT WILL OUR COMPANY OR ITS SUPPLIERS BE LIABLE FOR LOSS OF DATA OR FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. IN NO EVENT SHALL RECOVERY OF ANY KIND AGAINST OUR COMPANY BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY US WHICH CAUSED THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE OR MISUSE OF, OR INABILITY TO USE THE PRODUCT NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF OUR COMPANY. Some countries, states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT AS LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

Please note the following:

Be sure to keep your purchase receipt in a safe place. Our company, at its option, may require a copy of the receipt to validate the warranty period effective date (i.e. date of purchase). Warranty liability only applies to material or factory faults. It does not apply to damage due to breakage, for example, a crack in the housing. Our service includes unit exchange or send-in repair:

Unit Exchange

In locations where Unit Exchange is available, we will send you a replacement unit. You must return the defective unit to our company (using the shipping carton that the new one came in.)

Send-In Repairs

In locations where Send-In Repair Service is available, repair service can be obtained by shipping your unit to the Repair Center. The unit will be repaired and returned to you.

For either Unit Exchange or Send-In Repairs, you must have an authorized RMA number from our support before shipping your defective product.

Replacement products may be either new or equivalent in performance to new. Replacement or repaired products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use. Out-of-Warranty Support

In addition to providing free technical support during the warranty period, We are also available to support your product after the warranty period has ended. This out-of-warranty support will be provided on a fee basis.

## **DUPLICATION OF THE INSTRUCTIONS FOR USE / TECHNICAL DATA**

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