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# General Information



Read these instructions carefully under all circumstance and follow all the instructions listed. You will guarantee the reliable operation and a long life expectancy of your LCD TV in this way. Always keep these instructions at hand, close to your LCD TV. In the event that you transfer ownership of this LCD TV, please provide these instructions to the new owner.

## Purpose of use

This device serves to receive and transmit television channels. The different connection possibilities will enable an additional expansion of the sources of reception and transmission (Receiver, DVD-Player, DVD-Recorder, Video Recorder etc.).

- This device is only suitable for using in dry, internal rooms.
- This device is not suitable as a data screen for office use.
- This device is intended for personal use only. It not intended for commercial use in a heavy industry environment. Use under extreme environmental conditions can result in damage to your device.

## HD ready

Your LCD-TV is equipped with the 'HD ready' feature. This means that it can display high resolution television programmes (HDTV) in principle. It is the prerequisite that an HDTV signal is sent to the LCD TV by an external set-top box (HD-STB).

## **Included in the box**

Check that nothing is missing from the packaging and inform us of any missing parts within 14 days after purchase. The delivery of the LCD-TV you have purchased includes:

1. LCD-TV
2. Antenna cable
3. Remote control incl. 2 batteries type R03 (AAA) 1,5V
4. Documentation

# Safety instruction

## Safety

- Do not allow children to play unattended on electrical equipment. Children may not always correctly recognize danger.
- Keep the packing materials, such as plastic bags away from children. The danger of suffocation could arise in the case of misuse.
- Never open the housing of the TFT display (electric shock, short-circuit and the danger of fire)!
- Do not insert any objects through the slots and openings into the inside of the TFT (electrical shock, short-circuit and the danger of fire)!
- The remote control has a class 1m infrared diode. Do not examine the LED with optical instruments!
- Slots and openings in the TFT display are for ventilation purpose. Do not cover these openings, as otherwise this may lead to overheating (overheating, danger of fire)!
- Never exert pressure on the display. This could damage the display.
- 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.
- Do not touch the display with your fingers or with sharp objects to avoid damage.
- Please proceed as outlined in the service center section:
  - if the AC cable overheats or is damaged
  - if liquid has gotten into the display
  - if the device does not work properly
  - if the device is dropped or the housing damaged

## Point of use

- In the first hours of operation, new devices may emit a typical, unavoidable but completely harmless smell, which will decline increasingly in the course of time.
- We recommend you to ventilate the room regularly, in order to counteract the formation of the smell.
- Keep your LCD TV 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 LCD TV.
- Do not operate your device in the open air, because external influences, such as rain, snow, etc. could damage the device.
- Do not subject the device to drops or splashes of water and do not place any vessels filled with water, such as vases, on the device. Water penetrating the device can impair its electrical safety.
- Do not place any open sources of fire (candles or similar objects) on the device.
- Leave sufficiently large clearances to allow for ventilation, particularly when mounting in a cupboard or alcove. Maintain a minimum clearance 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 LCD TV from falling.
- Avoid dazzle, reflections, extreme light/dark contrast in order to save your eyes and ensure a pleasant viewing experience.
- The optimum viewing distance is 5 times the screen diagonal.
- Connecting an USB device at the USB socket:  
If necessary, make back-up copies on an external storage medium. The supplier does not assume liability for data loss or damage to data storage units, and no claims can be accepted for damages resulting from the loss of data or consequential losses.



## Repair

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

## Intended Environment

- The device can be operated at an ambient temperature of between 5° C to 35° C and at a relative humidity between 20% and 85% (without condensation).
- When switched off, the LCD-TV can be stored most reliably between -20° C - +60° C).
- Provide an interval of at least one meter from high-frequency and magnetic sources of interference (television sets, loudspeakers, mobile telephones, etc.) in order to avoid malfunctions.
- After transporting your LCD TV please wait until it has assumed the ambient temperature before connecting and switching it on.
- Large variations in temperature and humidity can cause condensation to occur inside the LCD-TV, which may cause an electrical short circuit.
- Disconnect the power plug from the power socket and the aerial from the aerial connection during storms or if the device is not being used for a long time.

## Power Supply



Please pay attention: Parts of the device are still live, even if the mains switch is switched off. Pull the mains plug out of the socket, to interrupt the power supply to your LCD TV completely.

- Operate your TFT display mains (power supply) only on grounded sockets with 230 V ~ 50 Hz. If you have doubts about the power supply in the location where the LCD-TV is installed, consult your energy supplier.

- For additional safety we recommend use of an excessive voltage protection device to protect your LCD TV from damage resulting from voltage surges or lightning.
- The power socket must be in the vicinity of your LCD TV and within reach of the power cables.
- If you use an extension cable, please ensure that it complies with the VDE requirements. If necessary consult your electrical equipment supplier.
- You should lay the TFT Display cables in a manner that no one can trip or step on it.
- To avoid damage of cable do not place any objects or furniture on the cable.

## Standards/electro-magnetic compatibility

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

### Standards/electro-magnetic compatibility

EN 55013      Limit values and measuring methods for radio interference by radios and television receivers and accessories.

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EN 55020      Electromagnetic immunity of broadcast receivers and associated equipment.

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EN 60065      Audio, video and similar electronic apparatus—Safety requirements.

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EN 61000-3-2      Electromagnetic compatibility (EMC)—Part 3-2:Limits—Limits for harmonic current emissions (equipment input current up to and including 16 A per phase).

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EN 61000-3-3      Electromagnetic compatibility (EMC)—Part 3-3:Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for

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equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection.

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## Batteries and Proper Treatment

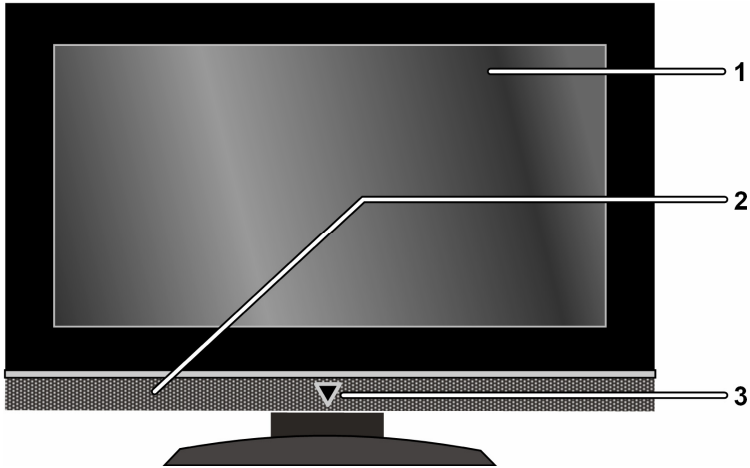
Batteries may contain combustible materials. By misuse, this may cause battery leakage, heat, explosion or ignition, bringing about injury or damage to the device.

Please observe strictly the following matters:

- Keep children away from batteries. If by any chance, the batteries are swallowed, consult a doctor immediately.
- Do not charge batteries (except rechargeable batteries).
- Do not forcibly discharge batteries.
- Do not short-circuit batteries.
- Do not heat or dispose off in fire. .
- Do not disassemble or deform batteries. Your hands and fingers may be injured, or the liquid of the battery may get into your eyes or adhere to your skin. If this happens, rinse with a large quantity of water immediately and consult a doctor.
- Do not expose batteries to strong impact by dropping or throwing the batteries.
- Do not reverse the positive (+) and negative (-) terminals to avoid short-circuit.
- Do not mix used and new or different types of batteries together.
- Remove promptly the used batteries from the device.
- Remove the batteries from your device if it is not to be used for a longer period.
- Clean the battery and device contacts, if necessary, before inserting batteries.
- Replace all batteries with new batteries of the same type at the same time.


# Overview

## Front View



1. TFT screen
2. Loudspeakers
3. On/off light with integrated infra-red sensor  
On/off light: the blue light will come on when the device is in stand-by mode. It will go off if the device is switched on.  
Infra-red sensor: receiving area for infra-red signals from the remote control.

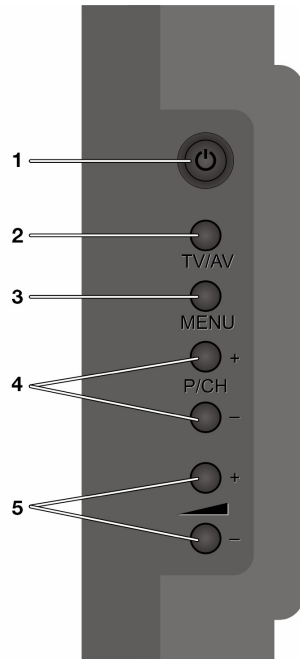
## Right side view

1.  **STANDBY**: to switch the LCD-TV off temporarily.
2. **TV/AV**: to select the input signal: press repeatedly to select **TV** (analogue), **DTV** (digital)/**USB**, , **EXT-1**, **EXT-2**, **FAV**, **HDMI 1**, **HDMI 2**, **YPbPr**, **PC**.
3. **MENU**: with this key you can display the screen menu to make adjustments to your equipment.
4. **P/CH +/-** : you can switch TV channel using these keys.
5. **+ ▸ -** : you can regulate the volume of your equipment with these keys.

### Menu mode

**P/CH +/-** has the function of the directional buttons **▲ ▼** ;

**+ ▸ -** has the function of the directional buttons **◀ ▶** .



## Left side view



For some connections, the source must be chosen (**SOURCE AV** button). For examples of connections, also see the chapter starting on page 72.

1 **SMART  
CARD  
COMMON  
INTERFACE**

Employ this insert slot for the use of pay-TV cards. Insert the card that you have received from the channel operator into the slot.

2 **USB  
Source:  
DTV/USB**

To connect an USB device.

3 **Headphone**



Headphone connection: to connect headphones with a 3.5 mm TRS stereo connector.

The main loudspeaker will remain switched on.

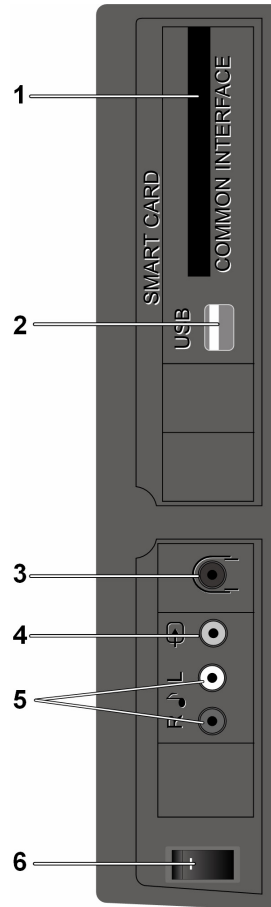


Using this appliance at full volume for extended periods of time may cause damage to the hearing capacity of the listener.

4   
Source: **FAV**

VIDEO-input (yellow): to connect a device and transfer its picture to the LCD using an RCA cable.

Connect devices such as camcorders, DVD players, decoders (e.g. satellite receivers), etc.





3		Receptacle to hold the power cable plug while carrying the TV
4	<b>SPDIF Coax. OUT</b>	Digital audio output socket (coaxial): for the connection of an amplifier or a receiver with a digital input socket. Use an SPDIF coaxial cable to transfer audio signals..
5	<b>L R AUDIO IN</b>	AUDIO input L - R (left - right) to be used in combination either <b>Y Pb Pr</b> Component inputs or with the <b>VGA</b> input (PC): to connect devices such as camcorders, DVD players, decoders (e.g. satellite receivers), etc, or a PC. You will need a red/white RCA cable for the audio link.
6	<b>Y Pb Pr</b> Source: <b>YPbPr</b>	Y - PB – PR input (left - right): Component inputs to connect devices to Component output, such as camcorders, DVD players , decoders (e. g. satellite receivers), etc. You will need a green/blue/red Component cable for this connection for the video link.
7	<b>SCART 1</b> Source: <b>EXT-1</b>	The SCART connection is both an input from and an output to the connected device (such as video recorders, DVD players, games consoles, decoders (e.g. satellite receivers, etc.).
8	<b>SCART 2</b> Source: <b>EXT-2</b>	When a device is connected to a SCART connection, the TV automatically switches into the AV mode.  You will need a SCART cable for this connection.  <b>ONLY SCART 1:</b> to connect a decoder for



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		encoded channels, only use <b>EXT-1 (SCART 1)</b> . The decoder might not work with <b>SCART 2</b> .
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9	<b>LINE OUT L – R</b>	Audio output L – R (left – right): Audio output to connect devices with Audio input, such as a stereo system / audio amplifier. Use a suitable Cinch cable to do this. The connection combination with a subwoofer ( <b>SUB OUT</b> ) is recommended.
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10	<b>SUB OUT</b>	Subwoofer output. Connect an external active subwoofer here to achieve a significantly better basic reproduction. Use a suitable Cinch cable to connect the subwoofer.
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11	<b>SPDIF Optic. OUT</b>	Digital audio output (optical) to connect devices with optical audio input. Use an SPDIF optical cable to transfer audio signals.
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12	<b>HDMI 1</b> <b>HDMI 2</b> Source: <b>HDMI1/HDMI2</b>	Digital connections to connect an device with an HDMI output. For this you need an HDMI cable. Your TV can render high definition pictures from devices like HD satellite receivers oder HD DVD players. These connections can receive signals of 720p or 1080i. HDMI also transfers the sound, so an additional audio connection is not necessary.
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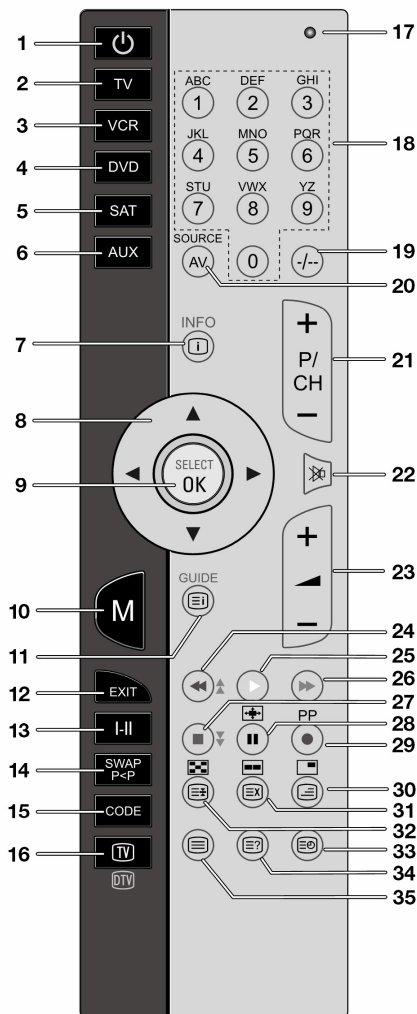
13	<b>VGA</b> Source: <b>PC-VGA</b>	VGA connection to connect a PC or notebook. Use a PC (VGA) cable to connect the PC.
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14 **ANT**  
Source: **TV**  
(analogue TV) or  
**DTV** (digital TV)

Aerial Socket:  
Connection for co-axial aerial for analogue  
TV or DVB-T-antenna for digital TV (DTV).

## Remote control






















1. STANDBY: to switch the LCD-TV off temporarily

20 Helpline No. UK/ North Ireland 0871 37 61 020 Rep. Ireland 1-800-992 508

Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

2. **TV**: to access this TV (MD 20043)
3. **VCR** (universal remote control function): to access another device, e. g. a video recorder
4. **DVD** (universal remote control function): to access another device, e. g. a DVD recorder or DVD player
5. **SAT** (universal remote control function): to access another device, e. g. a satellite receiver
6. **AUX** (universal remote control function): to access another device, e. g. a stereo system
7. **INFO**: to display information, such as current channel number and picture format
8. ◀ ▶ ▲ ▼ : Direction keys
9. **SELECT/OK**: in TV mode to freeze the picture;  
in menu mode to select an option or confirm a selection
10. **MENU**: open and close menu
11. **GUIDE**: in TV mode call up EPG;  
: in video text mode call up index page
12. **EXIT**: to go one step back in the menu structure;  
to leave the videotext
13. **I-II**: select sound mode
14. **SWAP P<P**: set previous TV channel
15. **CODE** (universal remote control function): to programme other devices
16. **TV/DTV**: select analogue TV or digital DTV operation
17. Red LED confirms a key press
18. Digit keys: in the TV mode channel selection;  
in video text mode: page selection
19. **-/--**: no function for the LCD-TV.  
To be used on another device in the universal remote control function
20. **SOURCE/AV**: select input signal from connected devices
21. **P/CH + / -** (Channel selection keys):  
in TV mode select the following (+) or the previous (-) channel;  
in video text mode select the following (+) or the previous (-) channel

22.  (Mute): Switch volume off
23.  : to increase (+) or decrease (-) the volume
24.  : in TV mode: red key opens SOUND menu  
in playback mode (universal remote control function): fast backward
25.  : in TV mode: yellow key opens FUNCTION menu;  
in playback mode (universal remote control function): start playback
26.  : in TV mode: blue key opens INSTALLATION menu;  
in playback mode (universal remote control function): fast forward
27.  : in TV mode: green key opens PICTURE menu;  
in playback mode (universal remote control function): stop
28.  : in TV mode: select picture format;  
 : in playback mode (universal remote control function): pause
29. **PP**: in TV mode: select picture mode;  
 : in playback mode (universal remote control function): record
30.  : in TV mode: opens a second picture in the picture (PIP);  
 : in video text mode: Mix (transparent picture);
31.  : in TV mode: opens a second picture at the picture (PAP);  
 : in video text mode: hidden searching
32.  : in TV mode, PIP mode: select the PIP position;  
 : in video text mode: stop page
33.  : in TV mode: display time;  
in video text mode: open sub-page
34.  : in TV mode: switch from TV mode to PC mode;  
in video text: show hidden text
35.  : switch video text on and off

# Setting Up



## NOTE:

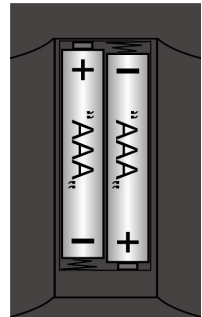
Read the Safety Instruction Chapter under all circumstances before bringing the device into operation.

## Unpacking

1. Have someone help you when unpacking the equipment.
2. Do not carry the equipment alone, otherwise it could fall or cause personal injury.
3. Open the box very carefully to prevent the equipment from being damaged. Damage can occur if a knife with a long blade is used to open the box.
4. There are various small parts in the packaging (batteries, screws, etc.). Keep these out of the reach of children. There is a risk of swallowing the parts.
5. Please keep the packaging material well and use it exclusively to transport the television.

## Putting the batteries into the remote control

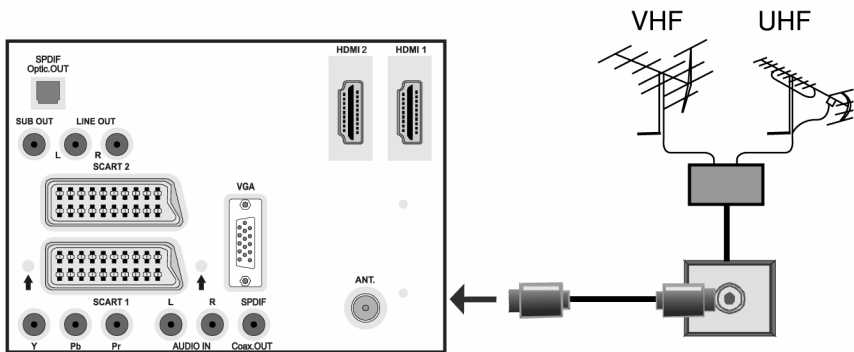
1. Remove the small cover on the battery compartment on the back of the remote control.
2. Install two AAA size, type R03 batteries according to the correct polarity (marked in the battery compartment).
3. Close the battery compartment.



## ATTENTION!

Remove the batteries from the remote, if the device will not be used for a longer period. The remote could be damaged by leaking batteries.

## Connecting an antenna



Connect the aerial connection and the LCD-TV by means of a double screened aerial cable (not supplied) when connecting the device to the room aerial or cable system.

## Connecting the power supply

Insert the plug into an easily accessible 230 V ~ 50 Hz power socket.



For other connections, please read the chapter Examples of connections on page 72.

## Turning the LCD TV on and off

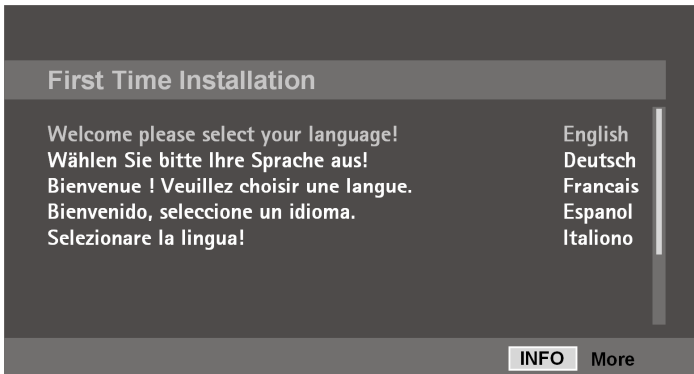
1. Press the on/off switch on the left of the device. The stand-by mode will be activated and a blue light on the front will come on.
2. You can switch on the device by pressing a **digit key** on the remote control, or the stand-by key on the remote control, or a **P/CH** channel selection key on the remote control or on the device itself. The light on the front will go out.
3. You can put the device back into stand-by mode with the stand-by key on the remote control or with the stand-by key on the right side of the device.
4. Press the on/off switch on the back of the device again to switch the device off completely.

# First Time Installation



To carry out the search for the digital channels successfully, make sure to connect the necessary antenna.

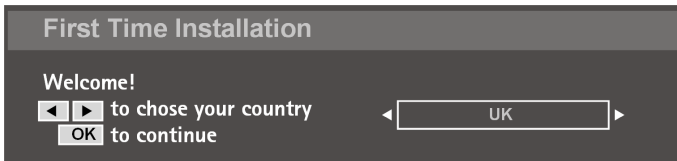
The DTV Menu will appear when you switch your device on for the first time. You will be greeted in different languages and requested to select the language of the DTV Menu.



You will be able to move upwards or downwards in the Menu by means of the ▲ ▼ directional buttons. Press the **OK** button to confirm your selection. You will receive information about using the DTV Menu in the Help Menu; press the **INFO** button to call up the Help Menu. You will leave the **Help Menu** by pressing the **INFO** button again.

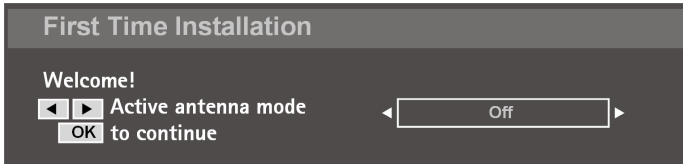
## Searching for digital channels

The initial installation will start after you have confirmed the language with **OK**.



Select the country required with the ◀▶ directional buttons and press **OK**.

In the next menu, select **On** if you use an active antenna (see DTV menu "Configuration", page 44). Otherwise leave the setting to Off.



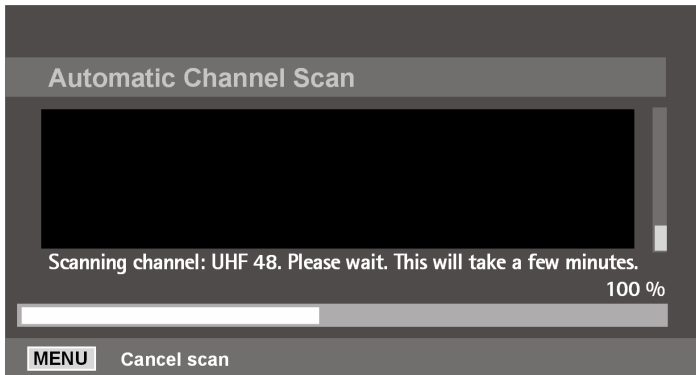
Press **OK** for the next query.



Click on **Yes** with the **◀▶** directional buttons and press **OK** to start the digital search process of the transmitter.

Click on **No** with the **◀▶** directional buttons and press **OK** to stop the process.

DTV will search through the UHF channels 21 to 68 and for terrestrial digital TV channels automatically.



The names of the channels found will be displayed. This process will last about five minutes. It is possible to store a maximum of 300 channels.

You can stop the search at any time with the **MENU** button.

At the end, the first programme in the list will be displayed.

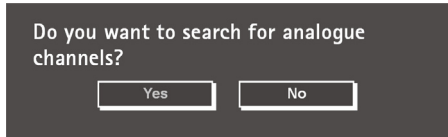


# Searching for analogue channels



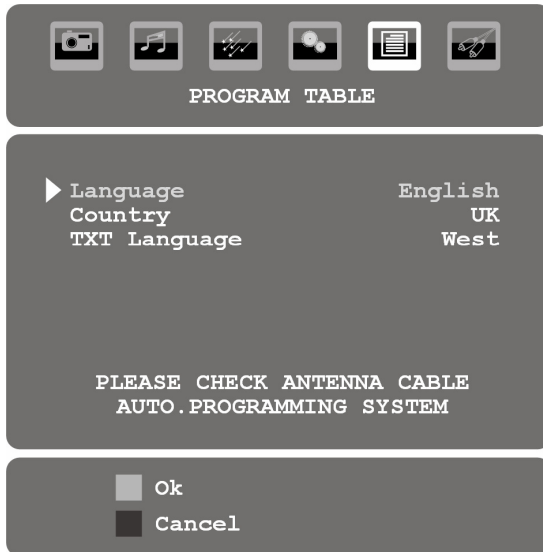
To carry out the search for the analogue channels successfully, make sure to connect the necessary antenna.

The query for the search of analogue channels will be displayed:



Select **Yes** with the **◀▶** directional buttons and press **OK** to start the analogue search process of the transmitter. Select **No** to stop the process.

The **PROGRAM TABLE** from the analogue OSD menu appears.



ADVISE for Ireland:

To use the complexity of the TXT also in IDTV mode, make sure that "Country" is set to "Ireland":

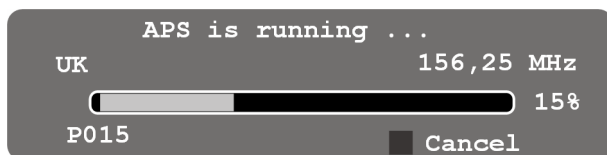


The initial installation will start after you have confirmed the language with **OK**.

- The select the required language with the ◀ ▶ directional keys.
- Proceed to the entry **Country** with ▼ if you wish to change the pre-set country setting. The country setting has an effect on the sequence in which channels are stored.
- If you wish to change the pre-set for the video text language, use the directional key ▼ to select the message **TXT Language** (Language for teletext) and use the ◀ ▶ directional keys to select the required language region **East**, **Cyrillic**, **Turk/Greek** or **Arabic**.
- Then confirm the message "**PLEASE CHECK ANTENNA CABLE**" by pressing the **OK** key or pressing the red key.
- You can cancel this process by pressing the blue key.

## Automatic channel search

The **APS** (automatic channel search) will now start. This takes a few minutes.



You can cancel this process with the **blue key**.

The channels are stored in a country-specific sequence in the channel locations. It is possible to store a maximum of 200 channels.

After automatic storage of channels is complete, the programme table will be displayed. If this table is not modified further, it will close after a few minutes. The channel on channel location 1 will appear.

# Basic Functions



The functions apply both to the analogue TV mode and to the digital DTV mode unless described differently.


## Switching between DVBT and analogue reception

You will be able to switch between terrestrial digital reception and analogue reception at any time, while a television programme is being displayed, with the **TV/DTV** button.

## Channel selection

- You can select a channel by pressing the **P/CH +** or **-** key on the remote control or on the device.
- For a number with two or more digits, press the two digit keys speedily one after the other.
- You can select the most recent displayed channel with the **SWAP/P<P** key.

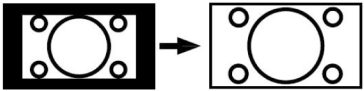
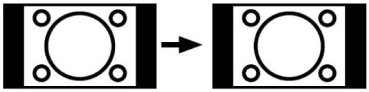
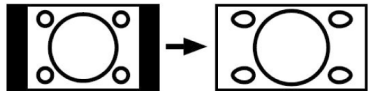
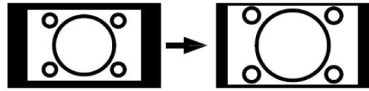
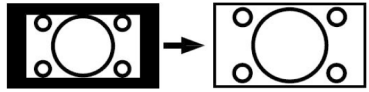
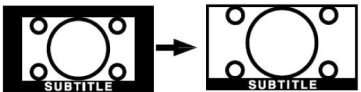
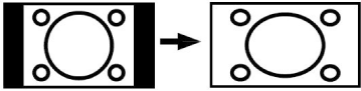
## Sound Settings

- You can increase or decrease the volume with the volume keys **+ ▸ -**.
- You can switch off the sound completely and switch it on again with the  key (Switch sound off).
- You can choose between mono and stereo reproduction, **Dual I** and **Dual II**, with the **I-II** key. **Dual I** and **Dual II** can only be reproduced if the current broadcast supports the DUAL mode (e. g. with bilingual broadcasts).

# Setting the Picture

## Zoom mode ( key)

Press the  key to switch between the following picture formats.

- **Auto:** the transmitted format is automatically set to the input signal.
- **16 : 9:** a picture in 16:9-format will be expanded to full screen size.  

- **4 : 3:** for undistorted display of the picture in 4:3-format.  

- **Panoramic:** the picture is stretched on the left and right sides to fill up the screen. In this case the upper and/or lower edges are somewhat cut off.  

- **14 : 9 Zoom:** a picture in 14:9-format ("Letterbox") will be expanded to the upper and lower edges of the screen.  

- **Cinema:** a picture in 16:9-format will be expanded to full screen size.  

- **Subtitle:** As with the "Cinema" setting. The picture is only shifted up, so that any subtitles or running text become visible.  

- **Zoom:** the picture is automatically expanded to full picture width.  


## Zoom in PC mode


- You can make use of the **4 : 3** and **16 : 9** formats in PC mode.

## Other picture settings

- In analogue TV mode, you can freeze and again release the picture with the **OK** key.
- You can select the picture mode with the **PP** ("Personal Preferences") key: **Natural, Cinema, Dynamic**.

## Displaying information

### Analogue TV mode

- Press the **INFO** key to display the following current settings:
  - Channel location and channel name;
  - Sound setting;
  - Picture setting.
- You will receive the same information when you switch over to another channel.
- You can display the time in **TV** mode by pressing the  key (Time/Sub-page videotext).

### Digital DTV mode

Change the channel to have information displayed:

- The time
- EPG information: the current programme, the next programme with the current channel.

Press **INFO** to have more information about the current programme.

## Select external device


- You can select the IN connections on the connected devices with the **SOURCE/AV** key.



Note that the source (the connected device) will only be recognised if this source is highlighted in the **SOURCE** menu when switching through with the **AV/ SOURCE** key.

- **TV**: analogue TV
- **DTV/USB** : digital TV (DTV) and USB
- **EXT - 1**: device on SCART 1 input
- **EXT - 2**: device on SCART 2-input
- **FAV**: device on yellow/white/red RCA inputs
- **HDMI-1**: HDMI input 1
- **HDMI-2**: HDMI input 2
- **YPbPr**: device on Component video and audio inputs
- **PC-VGA**: device on PC input

You can switch between TV and DTV with the **TV/DTV** button.




You can access the PC mode directly with the  button.

# Video text

Your LCD-TV supports 1000 pages of Teletext. This means that the device does not need to search following input of one of these 1000 pages, but will immediately display the page in question.

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

## To operate video text

1. Select a TV station on which video text is being transmitted.
2. Press on the  key to display the basic/index page of the video text.
3. The TV picture will be displayed on the left after you have pressed the  key again.
4. By pressing the  key again, you will switch over again to TV mode.
5. Press the TV key to return to TV mode.

## Select video text pages

### Number keys

- Enter the video text page required directly as three-digit number with the number keys.
- The page number selected will be displayed in the upper left corner of the screen. The video text counter will search un-til the page number selected has been found.

### Channel selection keys


- You can scroll forwards and backwards through the video text pages with the channel selection keys.

## Colour buttons

- If text is displayed in colour at the bottom of the screen, you can select the associated content immediately by pressing the associated **RED, GREEN, YELLOW** or **BLUE** keys.


## Subpages

Some video text pages contain sub-pages. For example, **1/3** will be displayed at the lower edge of the screen. The sub-pages will be faded in successively at intervals of approx. 30 seconds.

You will also be able to call up the sub-pages yourself by pressing the  button. A four-digit entry field will appear, into which you will be able to enter the number of a sub-page (e.g. 0002). You can scroll through the sub-pages with the directional keys ◀ ▶.

## Useful features for video text

### Combination of video text and TV picture

- Press the  key to display Teletext transparently (the TV picture is visible in the background).

### INDEX

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


### STOP




The video text page that you have selected may contain more information than will fit on the screen. In this case the information will be sub-divided across several sub-pages. The sub-pages will be scrolled through with regular pauses in between.

- Press the **STOP** key to prevent pages from changing automatically. The **STOP** symbol will be displayed in the top left corner of the screen and the automatic switching over of pages will be interrupted.
- Press the **STOP** key again to resume automatic changing of pages.





## **Suppress TT Search**




If you press the  key in video text mode, the video text display will move to the background. With this you can bridge waiting times until the required page displays.

- Select the required page number in the video text mode.
- Press on the  key to switch to TV mode while waiting for the video text page. A field will appear in the top left corner with the required page number or the  symbol while searching continues.
- The page number will be displayed as soon as the required page is found.
- Press the  key again to display the required page.

## **Displaying hidden text**

- You can display hidden information, such as solutions to riddles, puzzles or quizzes, by pressing the  key once.
- If you press the  key again, the answers will be hidden again.

## **Doubling the size of the page**

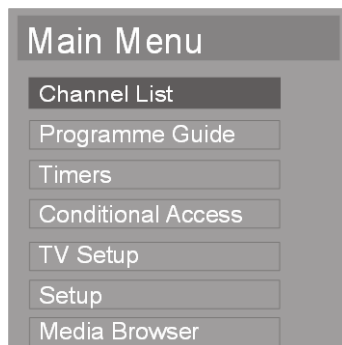
- This function displays the video text information doubled in size.
- Press the  button, to enlarge the upper half of the page.
- Press the  button again, to display the lower half of the page enlarged.
- Pressing the  button again will return the video text to its normal size.

# The DTV menu

The DTV Menu (Digital Television) can only be displayed when you are viewing a terrestrial digital broadcast. You will be able to switch DTV to the analogue mode with the **TV/DTV** button (below left on the remote).

## Main Menu

- Press the Menu button **MENU**; the **Main Menu** shown here will appear on the screen:
- Choose the options from the Main Menu with the **▲ ▼** directional buttons.
- Choose the options from a Menu with the **▲ ▼ ◀ ▶** directional buttons.
- Choose a setting in a sub-menu with the **◀ ▶** directional buttons.
- Confirm the selection and store the setting with the **OK** button.
- Close the Menu or jump back to the previous Menu with the Menu button **MENU**.
- Leave the **Main Menu** with the **MENU** or **EXIT** button.



It will usually be shown which buttons are available to you when operating the respective Menu in the lower menu strip.

## Help Menu

You will be able to call up helpful information about the Menu functions with the **INFO** button in most Menus.

## Channel List

Select **Channel List**, the first entry in the **Main Menu**, with the ▲ ▼ directional buttons.

The Channel List is where you will organize your channels. You will be able to carry out the following actions in this Menu:

- Navigation through the whole list of channels
- Shift channels \* (**Move**)
- Delete channels (**Delete**)
- Rename channels (**Edit Name**)
- Block channels (**Lock**)
- Establish favourites (**Favourites**)

Then press **OK** in order to display the Channel List.



## Scrolling through the whole Channel List

You will select the previous or the next channel with the ▲ ▼ directional buttons.

If you wish to view a particular channel, press the **OK** button, while the “**Select**” entry in the is highlighted.

## Sorting the channels in the Channel List

Select the channel to be moved with the ▲ ▼ directional buttons.

Select the “**Move**” function with the ◀ ▶ directional buttons.

Press **OK**; a dialogue window **Edit Number** will open.

Enter the required channel number and press **OK**. You will be asked whether you wish to exchange the two channels, if a channel position is already occupied.

Select **Yes** and confirm with **OK**. The channels will be exchanged and the Channel List will be updated.

Select **No** and confirm with **OK**. The channels will retain their positions.

## Deleting channels from the Channel List

Select the channel to be deleted with the ▲ ▼ directional buttons.

Select the “**Delete**” function with the ◀ ▶ directional buttons.

Press **OK**. The following message will subsequently appear on the screen:

**"The selected service will be permanently deleted.  
Are you sure?"**

The selected channel will be deleted if you press the **OK** button while “**Yes**” is selected.

The deletion process will be stopped if you select “**No**”.

## Renaming channels

Select the channel that you wish to rename with the ▲ ▼ directional buttons.

Select the “**Edit Name**” function with the ◀ ▶ directional buttons. The first character of the current name is in square brackets.

Select another letter with the ▲ ▼ directional buttons. You will be able scroll through a set of characters: capital letters, small letters, special characters, numbers.

Move to the next character with the ▶ directional button and so on.

Confirm the change and update the Channel List with **OK**.

## Locking channels

You will be able to protect access to particular channels (for the protection of young people, for example) by a password, by means of the channel lock. You will have to know the password (password at delivery: 0000; it can be changed in the **Setup Menu**, see page 44), in order to block a channel.

Select the channel to be blocked with the **▲ ▼** directional buttons; then choose the "**Lock**" option with the **◀ ▶** directional buttons.

Now press the **OK** button; a password window will be displayed. The '**Enter PIN**' message will appear.

To unlock the channel, proceed in the same way.

Enter the PIN and confirm with **OK**. A lock symbol will appear behind the channel name. You can now lock or unlock more channels.

When selecting the channel with the **P/CH** buttons you will now have to enter the PIN.

## Establishing favourites

You will be able to establish various channels as favourites in lists. As soon as one list is activated in the menu **Favourite mode** (see below), only the channels in this list are accessible.

Select the "**Favourites**" function with the **◀ ▶** directional buttons. Five lists will appear. **List 1** is highlighted.

Select the channels you want to have in **List 1** and confirm with **OK**. A "**1/2/3/4/5**" symbol behind the channel name indicates the Favourite List in which the channel is located.

Proceed in the same way to remove a channel from the list.


Press **EXIT** to go back to the previous menu and save the list.

## Navigating through the favourite channels

To access the favourite lists, activate them individually in the menu:

Press **MENU** for the **Main Menu >** then **Setup >** then **Configuration >** then **Favourite mode >** then select one of the five lists with **◀ ▶**.

Now the channels which you select with the **P/CH** button will be limited to the channels saved in the selected list.

 When a channel list is selected, the **EPG Programme Guide** and the **Timers** will only show the programme for the favourite channels.

## Programme Guide

You can also open the Programme Guide Menu with the **GUIDE** button.

In the table, you see the current TV programme for the available channels.

Select a channel with **▲ ▼**, and scroll through the day's programmes with the **◀ ▶** directional buttons.

The lower menu strip show the options for the programme table:

Red button	<b>Shrink</b>	Reduces the current column to display more programmes on the screen.	
Green button	<b>Expand</b>	Expands the current column to display more of the text	
Yellow button	<b>Prev day</b>	Displays the previous day's programme.	
Blue button	<b>Next day</b>	Displays the next day's programme	
<b>INFO</b>	<b>Details</b>	Displays a detailed description of the selected programme (if available); press again to close the info menu	
<b>OK</b>	<b>Options</b>	Opens <b>Programme Options</b> :	
		<b>Select Channel:</b> Switch to the channel highlighted in the Programme Guide	<b>Set Timer</b> (appears only when the selected programme is in the future): To save the highlighted programme in the timer automatically (see the next chapter "Timer").
<b>1-9</b>	<b>Jump</b>	Select a different channels by entering the channel number with the digit keys.	

<b>0</b>	<b>Search</b>	Hear you can search for programmes of certain genres or by their names within the following week. Please note that the allocation of a programme to a genre depends on the channels.	
	<b>Search:</b>	Choose the <b>Current channel list</b> , a <b>Single channel</b> (see next row), <b>All channels</b> , <b>All TV channels</b> , or <b>All radio channels</b> .	
	<b>Channel:</b>	Only accessible when <b>Single Channel</b> is selected: Select a channel.	
	<b>From:</b>	Select the first day.	
	<b>Until:</b>	Select the last day.	
	<b>Search by:</b>	Select <b>Genre</b> or <b>Name match</b> .	
	<b>Match on:</b>	<b>Genre:</b> Press <b>OK</b> to open the genre list. Select a genre and press <b>OK</b> .	<b>Name match:</b> Enter the programme's name with the digit button, using the alphabet function. *
		Select the field <b>Start search ...</b> and press <b>OK</b> to start the search.	
<b>P &gt; P</b>	<b>Now</b>	To go back to the current time when moved to another.	

\* You can type the text as with a mobile phone: Press one button repeatedly until the required character appears. Wait a second and the cursor [ ].

## Timers

In the Timers menu, you can programme a starting and ending point for a specific programme you do not want to miss (for 31 days in the future). The TV has to be in operation for this function.

30 seconds before the programme starts, a window will come up to remind you of the programme. Then you can change the channel.

<b>Menu point</b>	<b>Settings</b>	
<b>Mode</b>	<b>Show all</b> <b>TV only</b>	Show all channels (TV and radio)x Show only the TV channels.
<b>Name</b>	<b>03. TV 3</b>	Select the channel.
<b>Date:</b>	<b>08/02/2009</b>	Enter the required date here. Use the digit keys to change the value highlighted in in square brackets.
<b>Start:</b>	<b>00:00</b>	Enter the required starting time here.
<b>End:</b>	<b>00:00</b>	Enter the required ending time here.
<b>Duration</b>		The duration is calculated automatically.
<b>Repeat</b>	<b>Once</b> <b>Daily</b> <b>Weekly</b>	Choose the frequency in which the timer is to be activated.
<b>Change/Delete</b>	<b>Allowed</b> <b>Disallowed</b>	If "Disallowed" is selected, a lock symbol will appear in the timer list behind the programme. Then you can only change the setting by inserting the PIN.

After setting the timer, press the **green button** to save the setting.



## Conditional Access

This entry concerns the Common Interface.

To realise the conditional access via the common interface card:

You will have to register with a provider in advance if you wish to view channels with a fee.

You will receive a Conditional Access Module (CAM Module) and a special card from your provider after the registration. You will install these components in your television device in the following way.



Switch the television device off and pull out the mains plug. Do not insert the CAM module while the TV is on!

First, insert the CAM Module into the socket on the left of the television device (observed from the front). Then, insert the card.

The CAM Module must be inserted correctly the right way up; it cannot be pushed in the wrong way up. The CAM Module or the television device can be damaged if you attempt to push in the CAM Module with force.

Connect the television device to the power supply, switch it on and wait for a moment, until the card is recognized.

Also see the information about the settings in the documentation supplied with the module.

## TV Setup

This menu is identical with the Menu **P**icture in the analogue mode; see page 53.

## Setup

This menu includes the 3 submenus:

- **Configuration**
- **Language**
- **Installation**

## Configuration

---

<b>Menu Point</b>	<b>Settings</b>
<b>Favourite mode</b>	Select a favourite list here ( <b>List 1</b> to <b>5</b> ). All channels selections are then reduced to the channels saved in the chosen list. Select <b>Off</b> to access all channels. You will be able to take the channel into a Favourites List here.
<b>Channel List</b>	Select the channel list you want to be able to access: <b>Show all</b> , <b>TV only</b> , <b>Radio only</b> , or <b>Text only</b> . You will only be able to switch through the radio channels with the <b>P/CH+</b> and <b>P/CH –</b> buttons if <b>Radio only</b> has been set.
<b>Active antenna</b>	In case you are using an active antenna with a 5 V power supply for the digital terrestrial reception, set this option to <b>On</b> . Otherwise, leave it to <b>Off</b> . You can also activate the 5 V power supply to the antenna socket in the analogue mode in the <b>FEATURE</b> menu.
<b>Scan Encrypted</b>	If you want to received encrypted channels, set this option to <b>Yes</b> . If you only want to receive free-to-air programmes, set it to <b>No</b> .

---

Menu Point	Settings
<b>Receiver upgrade</b>	<p>You will be able to search for the newest software for the receiver and to update (upgrade) it here. Press <b>OK</b> to call up the <b>Upgrade options</b>. Select <b>Enabled</b> and confirm <b>Scan for upgrade</b> with <b>OK</b>.</p> <p>The message "<b>Completed searching for upgrade. No new Software was found.</b>" will be displayed on the screen after the search has been completed, if no new software is available. The version number of the software found will be displayed otherwise.</p>
<b>Parental Settings</b>	<p>Press <b>OK</b> to call up the <b>Parental control</b>.</p>
	<p><b>Menu lock:</b> You can limit the access to the menus.</p> <p><b>Disabled:</b> No menu lock.</p> <p><b>All menus:</b> All menus can only be accessed via the PIN.</p> <p><b>Installation Menu:</b> The Installation Menu can only be accessed via the PIN. This makes it impossible to carry out a channel search.</p>
	<p><b>Set PIN:</b> Here you change the PIN. (The factory set PIN is "0000". – Press <b>OK</b>. Enter the new PIN and repeat it in the next line.</p>
<b>Audio Description</b>	<p>More and more TV films have audio descriptions for people with reduced eye sight. Here you can make presettings for these audio descriptions.</p> <p>Select <b>On</b>, if you generally want to hear the audio descriptions. Otherwise, select <b>Off</b>.</p>

---

**Menu Point****Settings**

---

Select the preferred language **English**, **Welsh** or **Gaelic**. Please note that the availability depends on the film production.

Set a value for the **Relative Volume** (in relation to the main volume).

---

## Language Settings

---

**Menu**

Select the language of the **DTV Menu** here.

---

**Preferred languages:**

- **Audio**
- **Subtitle**
- **Guide**

Here you pre-set the preferred languages for the spoken language (Audio), the subtitles (for people of reduced hearing), and the Electronic Programme Guide.

Please note that the availability depends on the channels.

The 'Selection of the audio language' display will be faded in when the yellow button is pressed.

---

**Current languages:**

- **Audio**
- **Subtitle**

These entries show the spoken language and the subtitle language of the current programme.

If other languages are available, you can select them with ◀ ▶ .

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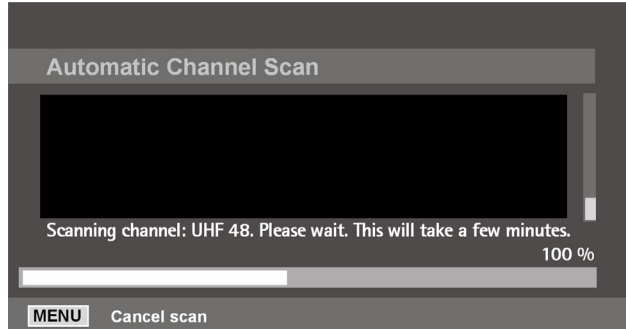
# Installation

## Menu Point

## Settings

### Automatic Channel Scan

Press **OK** to start the search for digital channels.



At the end, confirm the query "**Do you want to search for analogue channels?**" appears. If you want to make a search for analogue channels at this point, make sure to apply the antenna for the analogue reception.

### Channel Search

The digital channels are allocated to multiplex channel numbers. Here you can search a channel number for specific channels if you want to avoid making a complete search.

Press **OK** to start the search. All found channels will be shown in a list.

Channels already existing in the Channel List will not be stored again, both in the case of the manual search and in that of the automatic search, so that no unnecessary duplicates will arise.

The manual search will be started by pressing **OK** while the **manual Search** entry is selected.

### First Time Installation

Select the **First Time Installation** entry and press **OK** if you wish to recreate the factory setting. Confirm the query "**Do you want to**

**delete all channels and settings for first time installation?"** with yes.

The search process of the transmitter will be started automatically, as if you had started the device for the first time. See the Chapter „First Time Installation“, on Page 25.

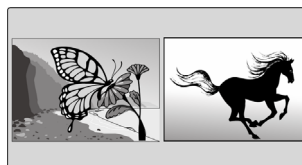
# "Picture in Picture"/"Picture at Picture"

You can display two images from different sources simultaneously on the LCD-TV screen with the PIP and PAP functions (e.g. TV picture and picture from connected DVD player).

- **PIP** ("Picture in Picture"): A small picture (the PIP window) appears within the main picture.



- **PAP** ("Picture at Picture" = The pictures are displayed side by side.





## Sources for PIP and PAP

If you wish to display two pictures in the PIP or PAP mode, the picture from one source must come from one connection of type A and the picture from the other source from one connection of type B on the LCD-TV.


<b>Type A</b> Available sources	Aerial (TV, TV picture), Digital TV ( <b>DTV</b> ), SCART connections ( <b>EXT-1</b> , <b>EXT-2</b> ), Video-Audio RCA connections ( <b>FAV</b> )
<b>Type B</b> Available sources	<b>HDMI 1</b> and <b>HDMI 2</b> , Component connections ( <b>YPbPr</b> ) and <b>PC</b>

You can therefore combine the TV picture with the picture from a connected PC, or the picture from a DVD player on a SCART connection with the picture from a DVD player on a HDMI connection.


## Activating and modifying the PIP function

1. Connect a device (e.g. a DVD player) to one of the type B inputs (HDMI 1, HDMI 2, YPbPr or PC).
2. If the LCD-TV does not itself display the picture from the external device, select the source with the **AV/SOURCE** key or in the **SOURCE** menu (see page 67). The picture from the external device is now the main picture.
3. Press the key . The PIP window (small picture) will now appear with the TV programme (aerial signal) within the main picture.
  - You can select another channel for the TV picture in the PIP window with the channel select keys.
  - You can select another source for the PIP window with the **AV/SOURCE** key (a device that is connected to one of the type A inputs).
  - You can switch the sound between the main window (connected device) and the PIP window with the directional keys ◀ ▶.
  - You can swap the PIP window and the main picture with the **P<P/SWAP** key.
  - You can close the PIP window by pressing  again.

## Activating and modifying the PAP function

1. Connect a device (e.g. a DVD player) to one of the type B inputs (HDMI 1, HDMI 2, YPbPr or PC).
2. If the LCD-TV does not itself display the picture from the external device, select the source with the **AV/SOURCE** key or in the **SOURCE** menu (see page 67). The picture from the external device is now the main picture.
3. Press the key . The PAP window (small picture) will now appear with the TV programme (aerial signal) within the main picture.
  - You can select another channel for the TV picture in the PAP window with the channel select keys.
  - You can select another source for the PAP window with the **AV/SOURCE** key (a device that is connected to one of the type A inputs).

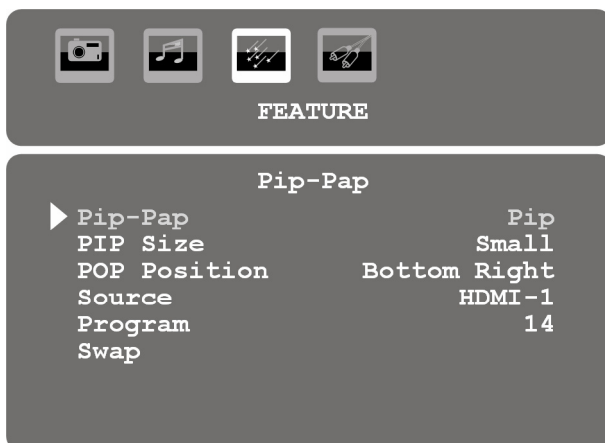


- You can switch the sound reproduction between the main window (connected device) and the PIP window with the directional keys ◀ ▶ .
- You can swap the PIP window and the main picture with the **P<P/SWAP** key.
- You can close the PIP window by pressing  again.

## The PIP and PAP menu

You can enter various settings for the PIP and PAP window.

- While the PIP or PAP window is displayed, press on the **MENU** key and open the **FEATURE** menu (see also “Navigating within the Menu”, page 53).
- Open the **PIP/PAP** menu with the directional key ▶ .



Menu point	Settings
<b>PIP PAP OFF</b>	Selecting PIP or PAP function closing them (off).
<b>PIP Size</b>	Select a small or large PIP window (not active when PAP is chosen).

---

<b>PIP Position</b>	Select a position within the main picture with the ◀ ▶ keys (not active when PAP is chosen).
<b>Source</b>	Select the source for the PIP picture. When the main picture source is TV, DTV, EXT-1, EXT-2 or BAV, the PIP Window can only be set to HDMI-1, HDMI-2, YPBPR; PC source or vice versa.
<b>PIP Programme</b>	If a TV programme is in the PIP window, select the programme with the directional keys ◀ ▶ or the digit keys.
<b>PIP SWAP</b>	With this you can swap the PIP picture and the main picture.

---

# The OSD menu in TV mode

You can set certain parameters on the LCD-TV using the OSD menu (On Screen Display).

## Navigating within the Menu

- Press the **MENU** button to activate the OSD. The active options are highlighted in yellow.
- Select the options from the main menu with the directional keys ◀ ▶ while no entry in the menu is highlighted.
- Go into one menu with ▼ and select the options from a menu with ▲ ▼.
- Go back to the main menu with the directional key ▲.
- Open a sub-menu with ▶ (not available in every menu).
- Set the required value or enter another selection with ◀ ▶.
- Go back to the menu above with the **EXIT** button.

Close the menu and confirm the selection at the same time with the menu key **MENU**. (Some menus require a saving under a special entry **Store**).



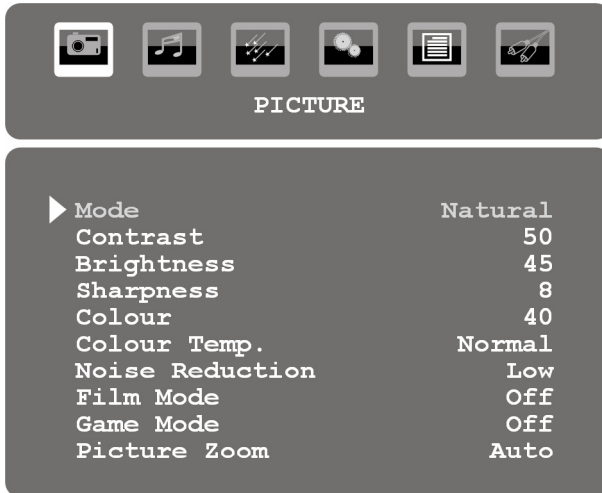
The menu will close automatically after approx. 15, 30 or 60 seconds if no key is pressed (setting in menu **FEATURE**).




### ATTENTION:

The menus described here may vary from the menus on your screen because of possible technical modifications.

## Menu PICTURE



Menu point	Settings
<b>Mode</b>	Select image mode: <b>Natural, Cinema, Dynamic</b> . This function corresponds to the operation of the <b>PP</b> key.
<b>Contrast</b>	Reduce or increase the contrast (0-63).
<b>Brightness</b>	Reduce or increase the brightness (0-63).
<b>Sharpness</b>	Reduce or increase the sharpness (0-15).
<b>Colour</b>	Reduce or increase the saturation (0-63).
<b>Colour Temp</b>	Select hue: <b>Normal, Warm, Cold</b> .
<b>Noise Reduction</b>	You can reduce noise in the image with this function and improve the image quality if the

Menu point	Settings
<b>Film Mode</b>	signal is weak. Select from <b>Off</b> , <b>Low</b> , <b>Medium</b> or <b>High</b> .
<b>Game Mode</b>	In the Game mode, certain settings for a better video display for games are loaded. Select <b>On</b> or <b>Off</b> .
<b>Picture Zoom</b>	Here you can select the image settings, as with the  key .

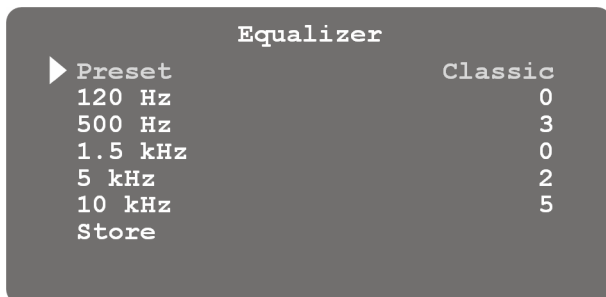
## Menu SOUND



Menu point	Settings
<b>Volume</b>	Basic setting of the volume when switching on (range 0-63). Select a limited basic volume.
<b>Equalizer</b>	Open <b>EQUALIZER</b> sub-menu: See following section
<b>Balance</b>	Balance between left and right loudspeaker (range -32 - 32).
<b>Headphone</b>	Opens <b>HEADPHONE</b> sub-menu: See next section but one.
<b>Sound Mode</b>	Sound mode: Choose between <b>Stereo</b> and <b>Mono</b> . If the current broadcast supports the DUAL mode (e.g. with bilingual broadcasts) then you can also choose here between <b>Dual I</b> and <b>Dual II</b> (original language and synchronisation). This function

<b>Menu point</b>	<b>Settings</b>
	corresponds to the operation of the <b>I-II</b> key.
<b>AVL</b>	The AVL (Automatic Volume Limiting) function aligns the various volumes of the various transmissions with each other. <b>Off</b> : Original volumes; <b>On</b> : Equal volume.
<b>Effect</b>	Switch sound effect on or off. If the current <b>Sound Mode</b> is set to Mono, the sound will be perceived as with stereo reproduction if the sound effect is switched on. If the current <b>Sound Mode</b> is set to Stereo, the sound will have greater depth.
<b>SRS Tru-Surround XT</b>	Switch surround effect on or off.
<b>Store</b>	Store the settings here with <b>▶</b> or <b>OK</b> .

## Submenu EQUALIZER



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Menu point	Settings
<b>Preset</b>	Make your choice from various Equalizer pre-sets. With the <b>Pop</b> , <b>Rock</b> , <b>Jazz</b> and <b>Classic</b> settings the sound settings are optimised for the type of music in question; <b>Normal</b> is the normal setting. For <b>User</b> , see next line.
<b>Frequency bands</b>	If you selected User, you can define your own setting: Choose a frequency band with ▲ ▼ Choose a value with ◀ ▶ .

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## Submenu HEADPHONE



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Menu point	Settings
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Volume	Set the volume of the headphones (range 0-63). (The volume keys control the main speakers' volume.)
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### WARNING!

In the first instance set the volume to a value at the lowest end of the scale before you put on the headphones. Then select a comfortable volume. Excessive volume can damage your hearing.

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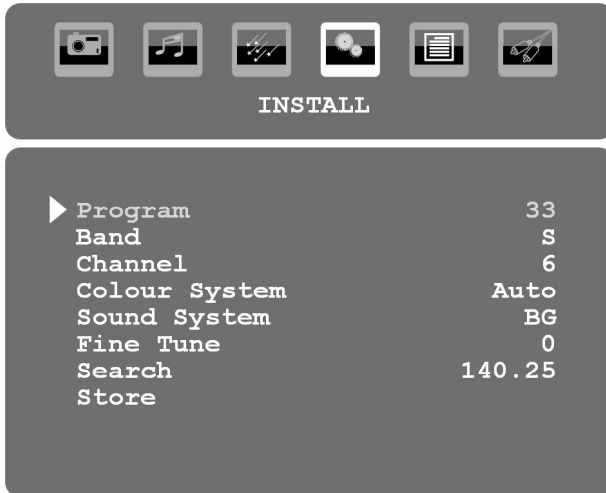
## Menu FEATURE



Menu point	Settings
<b>Pip-Pap</b>	Menu for PIP and PAP windows; see "The PIP and PAP menu" on page 51.
<b>Sleep Timer</b>	Select the time after which the device is automatically turned off. You can set the time in steps of 10 minutes (maximum 2 hours) with the directional keys ◀ ▶. The time for the Sleep Timer will start to run as soon as you have set the switch off time. – Select <b>Off</b> to switch off this function.
<b>Child Lock</b>	If you put the setting to <b>On</b> , then the keys on the device will be blocked (with the exception of the on/off switch):

<b>Menu point</b>	<b>Settings</b>
<b>Language</b>	Choose the language for the OSD menu. This will change immediately.
<b>Default Zoom</b>	Set the standard zoom here to <b>Panomara, 16:9, 4:3 or 14:9-Zoom.</b>
<b>Blue Background</b>	If the LCD-TV does not receive any signal, a blue background will appear instead of "snow" or a black image.
<b>Menu Background</b>	Here you can make the menu background more or less transparent by means of the directional key <b>◀ ▶</b> .
<b>Backlight</b>	Here you select the backlight to the menus: Auto, Minimum, Medium, Maximum.
<b>Menu Timeout</b>	Here you can set the time after which the OSD menu will automatically close: 15, 30 or 60 seconds.
<b>Teletext Language</b>	The pre-set is <b>West</b> . If you are in a different language region, you can change the language setting: <b>East, Turk/Gre, Cyrillic or Arabic.</b>
<b>Antenna Power</b>	If this option is set to On, the antenna output is supplied with +5V. You can also activate the 5 V power supply in the digital mode, in the <b>SETUP &gt; CONFIGURATION</b> menu.

## Menu INSTALL



Under normal circumstances, the automatic channel seek function looks for the available channels and these are automatically stored on the channel locations in the order they are found. You can reorder the channel locations in the channel table (see menu "PROGRAM TABLE").

The **INSTALL** menu moreover puts you into a position to search for individual channels manually and to store them as well as to adjust the picture to the optimum setting.

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### Menu point

### Settings

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#### Program

This displays the number of the channel location of the current channel. You can select another channel location with the directional keys ◀ ▶ or with the digit keys (0 to 99).

Store the new channel location with the **OK** key or by selecting the Store option and pressing on ▶. The **Stored...** message will then be displayed.

---

Menu point	Settings
	<p>Remember that the current channel will be saved onto the selected channel location. The channel will be stored under the channel number (e.g. "C-25") and not under the channel name.</p> <p>It is advisable to reserve channel location 0 if you want to connect a video recorder.</p>
<b>Band</b>	<p>The television frequency band is sub-divided into channel types <b>C</b> (Normal channel) and <b>S</b> (Special channel). This displays the channel type of the currently set channel.</p>
<b>Channel</b>	<p>This displays the channel number of the currently set channel. You can select another channel with ◀ ▶ .</p>
<b>Colour System</b>	<p>Here you select a country-specific TV colour standard: <b>Auto</b> (the correct colour system is set automatically), <b>PAL</b> (for PAL 50 MHz), <b>SECAM</b>, <b>PAL 60</b>. If the sound system (see following option) is set to " <b>I</b> ", then SECAM is not available.</p> <p>If an external source is selected (EXT - 1, etc.), <b>NTSC 3.58</b> and <b>NTSC 4.43</b> (usual colour format in North America) are also available.</p> <p>Choosing an incorrect colour system will result in an incorrect picture.</p>
<b>Sound System</b>	<p>Here you select a country specific TV system (video standard): <b>BG</b> (West Europe), <b>I</b> (Great Britain), <b>L, L'</b> (France) or <b>DK</b> (countries in Eastern Europe).</p> <p>Choosing an incorrect video standard can also result in an incorrect picture.</p>

<b>Menu point</b>	<b>Settings</b>
<b>Fine Tune</b>	Here you can adjust the picture of the currently selected channel with ◀ ▶ .
<b>Search</b>	<p>Here you can search channels manually.</p> <p>Start a search up or down with the directional keys ◀ ▶ . The search will be interrupted with every programme that is found. The MHz value will be displayed.</p> <p>You can assign a location to the channel under the <b>Program</b> menu option. Remember that when you save a different channel that location will be written over.</p> <p>You can adjust the channel further using the <b>Fine Tune</b> menu option (see previous section).</p> <p>Store the channel by pressing the <b>OK</b> key or by selecting the <b>Store</b> option and pressing on ▶ . The <b>Stored. . .</b> message will then be displayed.</p>
<b>Store</b>	Saving selected channel (see <b>Program</b> and <b>Search</b> options).

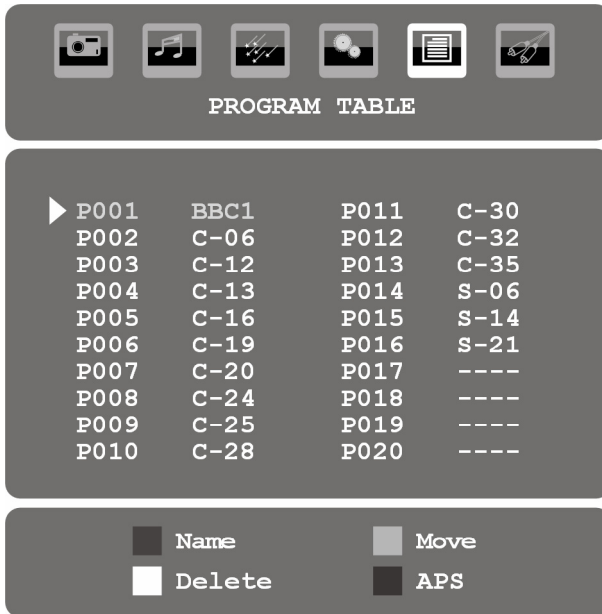
## Save video recorder manually

The manual search function can, for example, be used to set a video recorder on the LCD-TV.

Once the LCD-TV and the video recorder are connected via the aerial, you should tune your video recorder to the test signal.

- Perform the manual search action on the LCD-TV.  
Once the test signal has been found, store the test signal under channel location 0 (no TV channel is stored on this channel location).

## Menu PROGRAM TABLE



The channel table displays the currently stored channels. The channels are displayed under their channel names, insofar as the TV channel supports this function. The channel number **S-** or **C-** appear if the name cannot be displayed. Here "S" stands for special channel and "C" for normal channel.

The channel memory can store 200 channels. Activate the cursor in the table with the directional key **▼**. You can open another column by going to the right column with the directional key **▶** and pressing **▶** again.

---

### Menu point

### Settings

#### Name

You can change the channel name.

Highlight the required channel and press the red key. You can now change the first letter. Select a symbol with the directional keys **▲ ▼**. – The symbols are displayed in the following sequence: **A B C [...]** **Z a b c [...]** **z ( ) \* + , - . / 0 1 2 [...]** **9 : ; [space]**.

You can also type in a character with the digit keys,

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**Menu point****Settings**

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using the alphabet function.

Use the directional key **▶** to go to the next letter, and so on. At the end press the red key again to store the name.

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**Delete**

Select the channel you wish to remove from the list and then press the yellow key.

Press the yellow key again to confirm. The channels underneath will shift up one place in the table.

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**Move**

With this you can shift a channel to another location.

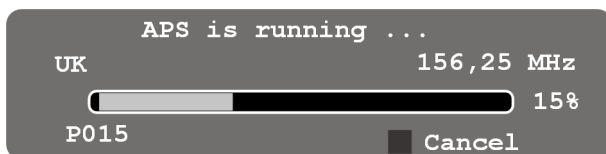
Select the required channel and press the green key. Move the channel to the required location with **▲ ▼** and press the green key again. The other channels will move as well.

---

**APS**

You can carry out another Automatic Programme Search as during the first installation (cf. page 28).

Press the **blue** key. A text will appear: "**WARNING! All Prestored Programs will be deleted**". Select another country if necessary with the directional keys **◀ ▶**. The country setting has an effect on the sequence in which channels are stored.

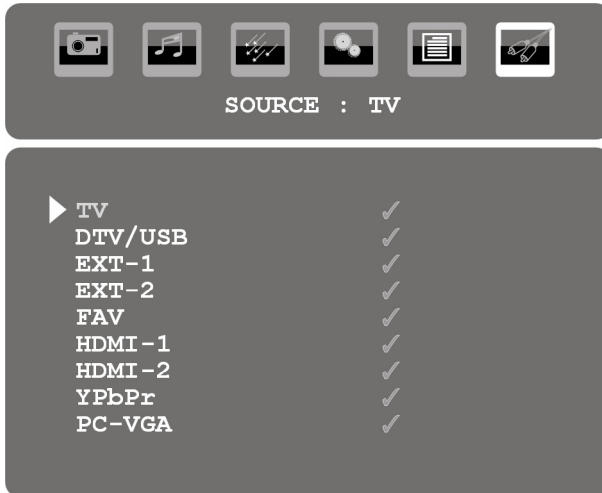


Press the **blue** key if you want to cancel the function. Press the **red** key or **OK** to start searching. The channel table will be displayed after the search is finished.

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## Menu SOURCE



This menu gives an overview over the available input sources. All sources marked with an ✓ are active.

In order to deactivate the source, select it and press **OK**.

In order to choose another source, select it and press **▶**.

Depending on the chosen source, the menu may appear with fewer options. Also, the **INSTALL** menu is unavailable or available but with fewer options.

(You can also choose the source directly with the **SOURCE AV** key. To swap between analogue TV and digital DTV, you can also use the **TV/DTV** button.)

Menu point	Settings
<b>TV</b>	Aerial use (TV channel)
<b>DTV/USB</b>	Aerial use of Digital Video Broadcasting Terrestrial/ USB connection
<b>EXT-1</b>	Lower SCART connection (analogue)

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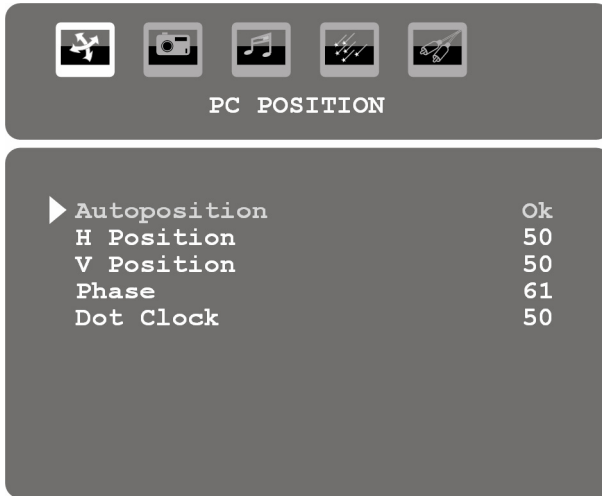
<b>EXT-2</b>	Upper SCART connection (analogue)
<b>FAV</b>	Video-Audio input - yellow/red/white (analogue)
<b>HDMI 1</b>	Right HDMI input (digital)
<b>HDMI 2</b>	Left HDMI input (digital)
<b>YPbPr</b>	Component inputs (analogue)
<b>PC</b>	PC input (digital)

---

## Menu in PC mode

The OSD menu has the following additional menu in PC mode:

### PC POSITION



Menu point	Settings
<b>Autoposition</b>	If the picture has shifted, you can select the <b>Autoposition</b> option and press <b>OK</b> to move it back to the middle of the screen. This function has to be performed with a full picture, otherwise the settings will not match.
<b>H Position</b>	Here you can change the horizontal position of the picture with the use of ◀ ▶ .
<b>V Position</b>	Here you can change the vertical position of the picture with the use of ◀ ▶ .
<b>Phase</b>	If the PC picture does not display clearly, you can align the picture signal here with the pixels on

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the LCD-TV with the use of ◀ ▶ . This makes the picture sharper and more even.

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**Dot Clock**

Pixel frequency. This setting synchronises the signal display with the pixel frequency of the screen. This corrects errors that can appear as vertical stripes with pixel intensive reproductions (such as tables or texts with small fonts). Adjust the pixel frequency with ◀ ▶ .

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## Media Browser (USB Operation)

If you connect a USB memory stick to the LCD TV, you can play back JPG and MP3 files.

### Advices for USB operation

- Some kinds of MP3 player might not be compatible with the LCD TV.
- USB hard disks are not supported.
- Insert the USB stick directly into the USB socket at the side of the LCD TV; do not use an adapter cable.
- To not pull out the USB stick during operation (while files are being played back).
- Do not quickly insert and pull out a USB device repeatedly in succession. This might cause physical damage to the USB player.

### USB operation



Insert the USB stick.

Select the source **DTV/USB** with the **SOURCE AV** button or via the menu **SOURCE** in the analogue mode.




- The TV will try to read the USB device. The Media Browser opens.
- The file structure (of an USB stick) will show on the screen. In the right column, the currently selected file will show.
- Select a folder or file and press OK for play back.
- In the lower menu strip, you can see the available options.

# Examples of connections

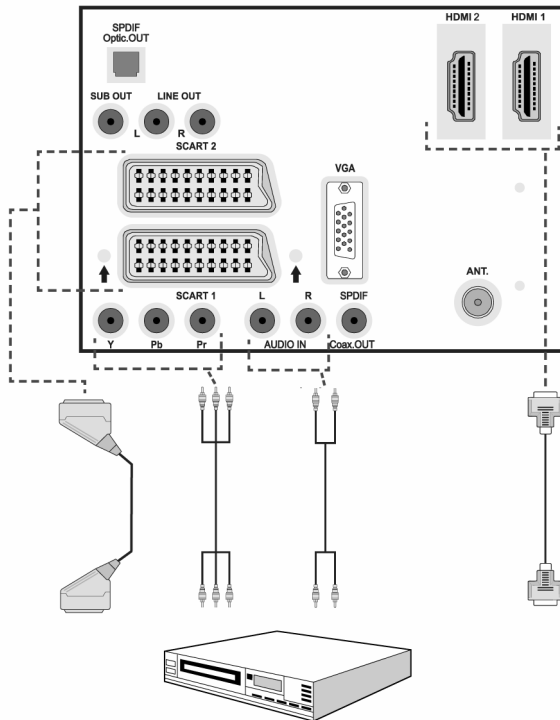
	<p>Before connecting another device with its own power supply, switch the LCD TV off. When the device is connected, switch it on.</p>
	<p>The connections are described in the chapter Overview, pages 16 ff.</p>

## Headphones

Connect the headphones to the headphone connection. The main loudspeakers will remain on when the headphones are connected. Regulate the volume level of the headphones by means of the volume keys and the Switch Off Sound key. You can adjust the volume of the headphones in the **SOUND** menu, **HEADPHONE** sub-menu, see page 59 .

	<p><b>WARNING!</b></p> <p>In the first instance set the volume to a value at the lowest end of the scale before you put on the headphones. Then select a comfortable volume. Excessive volume can damage your hearing</p> <p>Using this appliance at full volume for extended periods of time may cause damage to the hearing capacity of the listener.</p>
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# DVD player



Connect a DVD player with a SCART cable to the **SCART-1** or **SCART-2** connections.

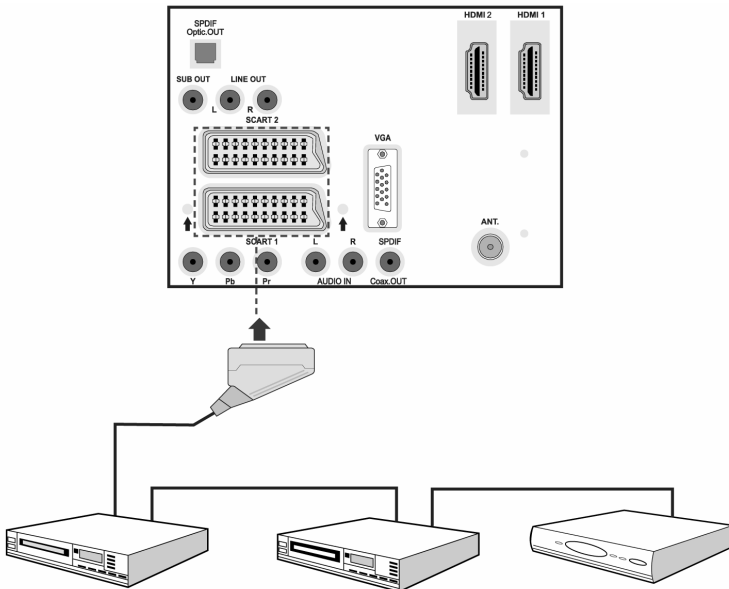
You can also use red-white (for sound reproduction) and yellow (for picture transmission) RCA cables.

If the DVD player has YUV outputs (Y Pb Pr), it is advisable to connect these using a Component cable (green/blue/red RCA) to the **Y-Pb-Pr** and **L-R** Component inputs on the LCD-TV.

Also, you can use a HDMI connection (see page 76).

## DVD or video recorder, SAT-receiver, decoder

Most devices have a SCART connection. You can for example a DVD or video recorder, a satellite receiver or decoder using a SCART cable:



A device that is intended to be used as a receiver for the LCD TV (e. g. SAT receiver, DVB-T receiver, decoder, set-top box) can also be connected with RCA cables:

- Connect (red-white) audio RCA cables to the audio inputs on the LCD-TV and the audio outputs on the external device.
- Connect a (yellow) video RCA cable to the video input on the LCD-TV and the audio output on the external device.

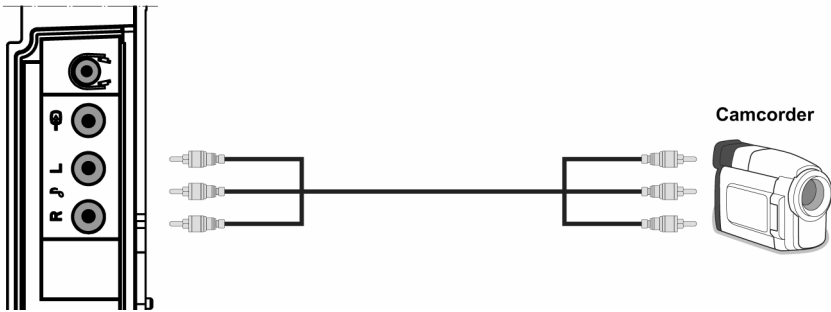
## Video recorder, DVD recorder

For a VCR or DVD recorder, also connect an aerial cable to the aerial socket of the LCD TV and the aerial output of the VCR/DVD recorder.

Connect another aerial cable to the aerial input of the VCR/DVD recorder and the aerial socket on the wall.

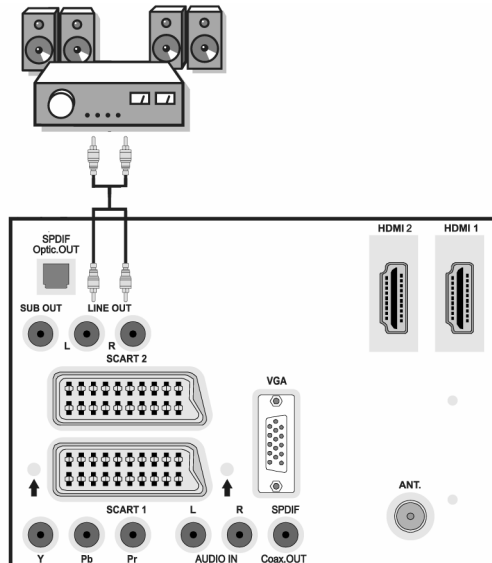


## Camcorder



- You can reproduce the sound and pictures of a camcorder on your LCD-TV by connecting the camcorder to the AUDIO-IN connections and the VIDEO-IN connection on the LCD-TV.

## Stereo system



To output the TV sound to a stereo system with loudspeakers, use audio cables for the **LINE OUT** connection.

Make sure to connect **L** (left) with **L** and **R** (right) with **R**; do not mix them up.

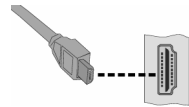
## Device with HDMI or DVI output

HDMI ("High Definition Multimedia Interface") is the only interface in the entertainment electronics sector with which one can transmit audio and video data digitally at the same time. HDMI can process all picture and sound systems known at this time, including HDTV (High Definition Television), so that it can reproduce a resolution of 1080 i without loss of quality.

Many devices from the entertainment electronics sector, such as DVD players, are equipped these days with HDMI or DVI outputs.

### External device with HDMI output

1. Connect an HDMI cable (not supplied) to one of the two HDMI inputs on the LCD-TV and the HDMI output on the external device.
2. Once you have connected the HDMI device then switch on the LCD-TV.
3. Then switch on the external HDMI reproduction device.



### External device with DVI output

If the external device has a DVI output, you can also connect it to the HDMI input (HDMI is backwards compatible with DVI - "Digital Visual Interface"). For this you need an HDMI-to-DVI adapter.

Given that no sound can be transmitted via the DVI output, you also need to connect an audio cable with a TRS stereo connector.


If you want to reproduce the sound through the LCD-TV connect audio RCA cables (red-white)

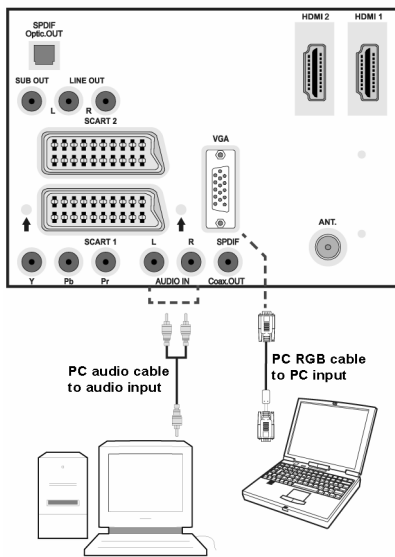
- To the component audio inputs on the LCD-TV in case of HDMI-1 input.
- To the audio inputs on the LCD-TV in case of HDMI-2 input.

## PC (VGA)

The LCD-TV can be connected as a screen or additional monitor to your PC or notebook. The image on your PC or notebook will then be displayed on the LCD-TV.

Connect the LCD-TV as follows:

1. Switch off both devices.
2. Connect a VGA cable (screen cable; not supplied) to the VGA input on the LCD-TV and to the output for the video card on the PC or the notebook.
3. Tighten the screws on the screen cable with your fingers so that the plug makes a good connection.
4. If you also want sound, connect an audio cable to the AUDIO input.
5. Switching the LCD-TV on first.
6. Only then switch on the PC or notebook.
7. Press the  key on the remote control in order to switch to PC mode. The PC image will appear on the LCD-TV. You can return to TV mode with the **TV** key.



If you use the LCD-TV as a second screen with your PC, then it may sometimes be necessary to adjust the screen settings in the operating system. You will find further information about matters you need to pay attention to when using more than one screen in the user manual for your PC or notebook.

# Universal remote control

## Use

This universal remote can replace up to four standard remotes and is able to operate the following types of device:

**TV** LCD TV MD 20043

**VCR** Video recorder,

**DVD** DVD player or DVD recorder,

**SAT** Satellite receiver,

**AUX** Audio devices, such as a CD player or an amplifier.

The VCR, DVD, SAT and AUX labels on the source buttons only serve clarity. The buttons can of course also indicate other types of device, such as a pay-TV decoder.

## Programming the device code

You will have to programme a four-digit device on the source buttons (TV, VCR, DVD, SAT, AUX) for each device that you wish to operate with the universal remote. The labels on the buttons only serve as an aid here. You will be able to set each button to any device ('Flex' mode, with the exception of the TV button. The TV button can only be set to a TV code.

Insert a video cassette beforehand if you want to programme a video recorder as a device.

## Entering a device code in accordance with the code list

The codes of the respective devices must be taken from the code list accompanying these instructions for use. Proceed as follows:

1. Switch the device concerned on manually.
2. Press the source button required briefly (VCR, DVD, SAT, AUX).
3. Press the **CODE** button down for approx. 3 seconds, until the red LED shines permanently.
4. Enter the four-digit code from the code list.

The red LED will go out briefly to confirm each press of a button.

The red LED will go out after the last digit has been entered, if the code entry was valid. The red LED will flash for three seconds before going out, if an invalid code was entered.

Repeat the programming with a different code, if applicable, if the device does not react in accordance with expectations. Please test all the codes given for your brand. Select the code to which all the available commands on your remote react correctly.

If you do not have any success, even with this, try with the search method described in the 'Automatic search' chapter.

## Manual code search process

You can carry out a manual search in this way:

1. Switch the device concerned on manually.
2. Press the source button required briefly (VCR, DVD, SAT, AUX).
3. Hold the **CODE** button pressed down for approx. 3 seconds, until the red LED shines permanently.
4. Press the **P/CH+** or **P/CH-** button successively several times (up to 350 times), until the device that is intended to be controlled changes the channel or reacts accordingly. The code search will start at the currently stored four-digit number.
5. Press **OK** briefly, in order to store the code.
6. Up to 350 different codes are pre-programmed per device type, because of the extensive number of different code numbers. It is possible in individual cases that only the most common main functions are available. The mode of procedure described cannot lead to success in the case of some special device models.

## Automatic code search

Try with the automatic search if your device does not identify the remote, although you have tried out all the codes listed for your device type and the corresponding brand. You will also be able to find the codes of those brands that are not listed in the device code list with this process.

You will have to programme a code of the required device type, during the automatic search, if you wish to programme the VCR, DVD, SAT or AUX

source buttons with a different device to the one programmed. For example: you wish to control a DVD player with the AUX button. First, programme any code of a DVD player from the code list, before carrying out the following steps.

1. Switch the device concerned on manually.
2. Press the required source button briefly (VCR, DVD, SAT, AUX).
3. Hold the **CODE** button pressed down for approx. 3 seconds, until the red LED shines permanently.
4. Point the remote at the device and press the **P/CH+** button once briefly. Press the **▶** or the **STANDBY** button instead of **P/CH+** if the device has no programme function.  
The remote will start the code search after 6 seconds and will transmit all the codes successively at intervals of a second (see also the next section). The red LED will flash at each transmission.
5. Press **OK** as soon as the device reacts to the remote. You will be able to jump back to the code to which the device reacted with the **P/CH+** button, step-by-step, if you have missed pressing **OK** in time.

Press **EXIT** to interrupt the search.

### **1 second or 3 second intervals**

Proceed as follows if the remote should only transmit a new code every 3 seconds, instead of second-by-second:

Press **P/CH+** (or **▶** or **STANDBY**) twice. The remote will now only transmit a new code every 3 seconds. You will gain more time through this, but the process will also last longer.

### **Code search according to the trade name**

This function offers you the possibility of searching according to trade names. You will find the trade names in the list below. Proceed as follows:

1. Switch the device concerned on manually.
2. Press the required source button briefly (VCR, DVD, SAT, AUX).
3. Hold the **CODE** button pressed down for approx. 3 seconds, until the red LED shines permanently.

4. Enter the one-digit code according to the following list:  
Button 1 = Medion, Lifetec, Micromaxx, Microstar, Tevion, Videon, TCM (Tchibo), General Technic, Innovation, Magnum;  
Button 2 = Philips, Erres, Pye, Philco, Rodiola;  
Button 3 = Sony, Akai, Panasonic, JVC, Sharp, Toshiba, JVC, Daewo;  
Button 4 = Thomson, Brandt;  
Button 5 = Telefunken, Saba, Nordmende, Fergusson, Baird;  
Button 6 = Grundig, Blaupunkt;  
Button 7 = Nokia, Finlux, ITT;  
Button 0 = All brands
5. Press the **P/CH+** button several times (or **STANDBY** or **PLAY ▶** in the case of video recorders), until the device reacts accordingly. Proceed at a good speed here, because the automatic code source will be started otherwise.
6. Store the code by pressing **OK**.

The red LED will flash for approx. 3 seconds when all the codes have been searched through.

## Code identification

The code identification offers you the possibility of determining codes already entered, which will be stored in the remote. Proceed as follows:

1. Switch the device concerned on manually.
2. Press the required source button briefly (VCR, DVD, SAT, AUX).
3. Hold the **CODE** button pressed down for approx. 3 seconds, until the red LED shines permanently.
4. Press the **CODE** button briefly. The red LED will flash again.
5. Press the number buttons from 0 to 9, in order to find the first number. The number will be the first stored number if the red LED goes out briefly.
6. Press the number buttons from 0 to 9 again, in order to determine the second number. Repeat the process for the third number.
7. The red LED will go out as soon as the button for the third number has been pressed.

The code identification will now have been concluded.

## Normal operation

The remote will work in the most common main functions, like the original remote of the respective device, after you have programmed your remote for your audio/video devices.

Point your remote at the required device and press the corresponding source button. Then use the other buttons as usual. The red LED will shine briefly at each transmission of an infrared signal.

Now, you will activate the functions by pressing the corresponding function button on your universal remote.

Please pay attention to the following:

- Not every function of your original remote might be available on the universal remote.
- It is possible that the functions have been stored under different buttons than expected or are not available at all, particularly in the case of newer devices.

## Special functions

### Everything off function

You can switch off all the pre-programmed devices at the same time.

Proceed as follows:

Press the STANDBY button briefly once and again immediately for longer (at least two seconds). Now, all the pre-programmed devices will be switched off one after the other.

Some devices can be switch on and off with the STANDBY button. Such switched off devices will be switched on with this function.



## **EPG – Electronic Programme – GUIDE**

The **GUIDE** button (EPG = Electronic Programme Guide) will have different functions according to the code for which it is used:

- The button will open the electronic television programme (EPG) in the case of TV and satellite codes (e. g. SAT-TV or DVB-T).
- The button will open the title menu in the case of DVD codes.
- You will be able to programme with the button, provided that your video recorder has a ShowView function, in the case of VCR codes.

## **Specifications for the remote control**

Batteries: 2 x 1.5 V (LR03/AAA) – alkaline recommended

Laser class: 1

# 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.

- Check whether the mains cable has been connected to the socket and the mains adapter correctly.
- Check whether the signal reception has been set to TV.
- Check whether the mains switch of the device on the rear of the device has been switched 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 whether the correct AV setting has been selected.
- If you want to select an input source with AV you need to highlight this in the **SOURCE** menu.

There is no sound.

- Make sure the volume is not set to minimum.
- Make sure the sound is not set to mute.

There is no picture or sound, just noise.

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

The 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 contrast and brightness settings.

The remote control does not work.

- Check whether the batteries in the remote are operational and have been inserted correctly.

- You might have pressed one of the source buttons for the universal remote control function (VCR, DVD, SAT, AUX). Press TV for the operation of the LCD TV.
- Make sure the remote sensor window is not under strong lighting.
- Switch the device off and on again with the mains switch at the rear.

The picture is not sharp.

- The reception may be weak.
- Make sure the aerial is not disconnected.
- Check the sharpness and noise suppression settings in the **PICTURE** menu.

A double or triple image will be displayed.

- Check if the aerial is correctly oriented.
- The signal may be reflected off hills 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 colors 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 operating buttons on the device do not function.

- The child-lock may have been activated.

## **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 Service Center, please keep the following information available:

- What external devices have been connected?
- What messages appear on your display?
- During which operating step has the problem arisen?
- When a PC has been connected to the device:
  - What is the system configuration?
  - Which software were you using when the problem arose?
- What steps have you already undertaken to solve the problem?
- If you have already been given a customer number, please keep this available.

# Specifications

Input voltage:	230 V ~ 50 Hz
Visible display size:	26 inch (66 cm) TFT; 16:9-display
Power consumption:	100 W
Power cons. in standby:	< 1 W
TV system:	PAL, SECAM, B/G, D/K, I, L/L'
Tuner:	Aerial, DVB-T
Channels:	VHF (Band I/III) FM (BAND U) HYPERBAND CABLE-TV (S1-S20)/(S21-S41)
Audio:	Stereo
Channel positions:	100
Antenna interface:	75 Ohm
Connections:	2 x HDMI with HDCP encoding, 2 x SCART, composite VIDEO (cinch), component YUV (cinch), 2 x stereo audio in (cinch), audio out (cinch), headphone (3.5 mm jack), subwoofer out (cinch); SPDIF, VGA (15 pin d-sub), 1 x CI Slot
Dimensions	
W x H x D, incl. stand:	676 x 525 x 180 mm
W x H x D, without stand:	676 x 487 x 117 mm
Weight (incl. stand):	approx. 10 kg (12 kg)



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# Maintenance

The lifespan of the LCD-TV can be extended by the following means:

1. Before cleaning, always remove the power adapter plug and all connecting cables.
2. Do not use any solvents, corrosive or gaseous cleaning agents.
3. Clean the display with a soft, lint-free cloth.
4. Ensure that no water droplets remain on the screen. Water can cause permanent discoloration.
5. Do not expose the screen to bright sunlight.
6. Please keep the packaging material well and use it exclusively to transport the device.



## ATTENTION!

There are no user-serviceable or user-cleanable parts inside the device.

# Recycling

## Packaging



Your device is packaged to protect it against damage during transportation. The packaging is manufactured from materials that can be sent to a specialist recycling facility and disposed of in an environmentally-friendly way.

## Device



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

## Batteries



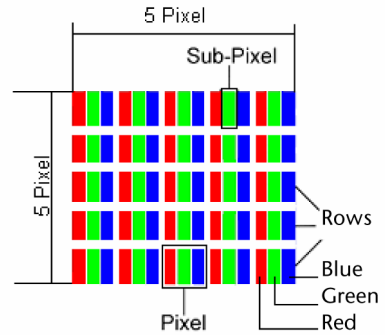
Do not dispose of used batteries in the household rubbish! They must be deposited at a collection point for used batteries.



# Pixel errors with LCD TVs

Individual pixels or groups of them can fail in rare cases, in spite of the most up-to-date manufacture, because of the highly complex technology.

Active matrix LCDs (TFT) with a resolution of 1366 x 768 pixel,(WXGA) which are in turn composed of three sub-pixels each (red, green, blue), contain about 3 million addressable transistors. Because of this very high number of transistors and their extremely complex production process occasionally defective or incorrectly addressed pixels or sub-pixels may occur.



Description		Accepted Number
Bright sub-pixels	1 sub-pixel	Max. 2
	Two lying next to each other (horizont./vertic.)	Max. 1
Distance	Min. distance between light and dark sub-pixels	Min. 5 mm
Dark sub-pixels	Individual	Max. 7
	Two lying next to each other	Max. 2
	Three	0
Distance	Min. distance between light and dark sub-pixels	Min. 5 mm
Total number of bright and dark sub-pixels		Max. 7

The table describes the maximum number of pixel faults that are permitted to arise on the screen, without involving a guarantee case. Under certain circumstances, a guarantee case will be present if the number of faults given above is exceeded in one category.

# Code List

## TV

### A

ACME	0011							
ADA	0018							
ADC	0006	0007						
ADMIRAL	0019	0108	0002	0001	0047	0000		
ADYSON	0003							
AGAZI	0002							
AGB	0123							
AIKO	0003	0009	0004					
AIWA	0184	0248	0291					
AKAI	0011	0086	0009	0068	0004	0006	0008	0051
	0061	0088	0169	0200	0133	0141	0069	
AKIBA	0011							
AKURA	0169	0074	0002	0009	0011	0071		
ALBA	0028	0027	0009	0011	0003	0068	0083	0169
	0047	0245	0248	0162	0062			
ALBIRAL	0037							
ALKOS	0164							
ALLORGAN	0157	0026						
ALLSTAR	0051							
ALTUS	0042							
AMPLIVISION	0003							
AMSTRAD	0011	0009	0068	0074	0002	0108	0071	0069
	0030	0123	0013					
ANAM	0009	0065	0109					
ANGLO	0009							
ANITECH	0009	0002	0043	0109				
ANSONIC	0009	0014						
ARC EN CIEL	0126	0045	0139					
ARCAM	0003							
ARISTONA	0169	0051						
ARTHUR MARTIN	0158							
ASA	0017	0110	0016	0018	0000	0021		
ASBERG	0051	0043						
ASTRA	0009							
ASUKA	0011	0002	0003					
ATLANTIC	0169	0003	0051	0157				
ATORI	0009							
AUDIOSONIC	0009	0003	0169	0011	0051	0139	0157	0090
	1062							

AUDIOTON	0003							
AUSIND	0043							
AUTOVOX	0003	0002	0101	0157	0000	0125	0043	
<b>B</b>								
BAIRD	0111	0139	0245					
BANG & OLUFSON	0199	0000						
BARCO	0112							
BASIC LINE	0009	0011	0051	0245				
BASTIDE	0003							
BAUR	0169	0118	0076	0141	0132			
BEKO	0042	0083	0034	1064	0007	0095		
BEON	0169	0051						
BEST	0113							
BESTAR	0051	0245						
BINATONE	0003							
BLACK DIAMOND	0171							
BLACK PANTHER LINE	0245							
BLACK STAR	0129							
BLAUPUNKT	0117	0202	0135	0008	0022	0100		
BLUE SKY	0011							
BLUE STAR	0120							
BONDSTEC	0129							
BOOTS	0003							
BPL	0120							
BRANDT	0127	0045	0022	0036	0126	0139	0046	
BRION VEGA	0051	0169	0000					
BRITANNIA	0003							
BROKSONIC	0920							
BRUNS	0000	0007						
BSR	0131	0026						
BTC	0011							
BUSH	0028	0027	0032	0009	0011	0019	0205	0039
	0051	0068	0169	0107	0115	0131	0139	0167
	0245	0248	0024	0132	0120	0062		

**C**

CAPSONIC	0002							
CARREFOUR	0027							
CASCADE	0009							
CATHAY	0051	0169						
CENTRUM	0168	0205						
CENTURION	0051	0169						
CENTURY	0000							
CGE	0129	0047	0131	0043				
CIMLINE	0009	0028						
CITY	0009							
CLARIVOX	0169	0037						

CLATRONIC	0009 0043	0011	0051	0002	0083	0003	0129	0030
COMBITECH	0248							
CONCORDE	0009							
CONDOR	0198	0051	0083	0003	0245			
CONTEC	0003	0009	0027	0030	0029			
CONTINENTAL EDISON	0046		0022	0111	0036	0045	0126	0139
COSMEL	0009							
CROSLEY	0129	0131	0000	0043				
CROWN	0009	0169	0083	0047	0051	0245	0121	0043
CS ELECTRONICS	0011	0129	0003					
CTC	0129							
CTC CLATRONIC	0014							
CYBERCOM	0177	0038	0171	0002	0009	0206	0205	0207
	0208	0210	0169	0042	0044	0127	0047	0061
	0063	0067	0068	0103	0107	0115	0154	0168
	0185	0228	0209	0343	0924	0933	0248	0291
CYBERMAXX	0177	0038	0171	0002	0009	0206	0200	0205
	0207	0208	0210	0211	0169	0015	0042	0044
	0047	0048	0049	0061	0063	0067	0068	0087
	0103	0107	0115	0127	0154	0155	0168	0170
	0185	0228	0229	0209	0218	1005	0894	0343
	0924	0933	0248	0291				
CYBERTRON	0011							
CYTRON	0177	0038	0171	0002	0009	0206	0200	0205
	0207	0208	0210	0211	0169	0015	0042	0044
	0047	0048	0049	0061	0063	0067	0068	0087
	0103	0107	0115	0127	0154	0155	0168	0170
	0185	0228	0229	0209	0218	1005	0894	0343
	0924	0933	0248	0291				
<b>D</b>								
DAEWOO	0094	0009	0191	0003	0051	0115	0245	
DAINICHI	0011							
DANSAI	0002	0169	0051					
DANTAX	0171	0161	0169	0088	0034	0113		
DATSURA	0121							
DAYTON	0009							
DAYTRON	0245							
DE GRAAF	0019	0006	0033					
DECCA	0003	0169	0004	0051	0123	0030		
DECCACOLOR	0015							
DCE	0205	0042						
DELL	0025							
DESMET	0051	0169						
DIGITOR	0227	0228						
DISNEY	0148							
DIXI	0009	0169	0051					
DTS	0009							

DUAL	0177	0038	0171	0002	0009	0206	0207	0208
	0169	0042	0044	0127	0047	0061	0063	0067
	0068	0003	0103	0107	0115	0126	0131	0139
	0154	0160	0168	0210	0228	0343	0924	0933
	0248	0291	0125	0089				
DUAL-TEC	0009	0131	0003					
DUMONT	0003	0014	0017	0018	0000			
DURABRAND	0228	1006	1007	1008	1009	0933	1085	1086
	1087	1088						
DUX	0169							
DYNATRON	0051	0169						
<b>E</b>								
ELBE	0108	0157	0037					
ELCIT	0000							
ELECTRO TECH	0009							
ELEKTA	0120							
ELIN	0051	0003	0169	0016	0018			
ELITE	0011	0051						
ELMAN	0014	0131						
ELTA	0009							
EMERSON	0141	0127	0000					
ERAE	1003							
ERRES	0169	0051						
ESC	0245							
ETRON	0009							
EURO-FEEL	0002							
EUROLINE	0149	0169	0088					
EUROMANN	0002	0051	0003					
EUROPHON	0003	0051	0051	0131	0123			
EXPERT	0157							
<b>F</b>								
FENNER	0009	0115						
FERGUSON	0127	0166	0035	0169	0036	0050	0052	0111
	0163	0037						
FIDELITY	0003	0019	0068	0074	0096			
FINLANDIA	0019	0006	0110	0128				
FINLUX	0061	0087	0063	0003	0004	0016	0167	0110
	0131	0157	0169	0051	0017	0018	0014	0000
	0123	0043	0042					
FIRSTLINE	0003	0129	0009	0051	0062	0026		
FISHER	0006	0003	0018	0083	0131	0000	0027	0029
	0040							
FLINT	0051	0113						
FORMENTI	0001	0169	0003	0131	0133	0000	0043	0125
FORTRESS	0001	0000						
FRONTECH	0019	0002	0009	0068	0118	0129	0120	0021
FUJITSU	0116	0004	0157					
FUNAI	0002	0026						

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**G**

GALAXY	0047	0083						
GBC	0009	0027	0131					
GEC	0169	0003	0004	0041	0051	0141	0123	0132
GELOSO	0019	0009	0131					
GENERAL TECHNIC	0009	0248						
GENEXXA	0011	0051	0021					
GERICOM	1064	0049	1022	1023				
GOLDSTAR	0084	0129	0003	0009	0019	0051	0131	0169
	0171	0261	0012	0093				
GOODMANS	0009	0111	0002	0004	0027	0169	0028	0051
	0068	0115	0127	0171	0245	0283	0093	
GORENJE	0083							
GPM	0011							
GRAETZ	0141	0142	0021					
GRANADA	0127	0019	0003	0006	0169		027	0031
	0051	0054	0004	0064	0133	0138	0128	0040
	0043	0123						
GRANDIN	0009	0169	0011	0245	0120			
GRUNDIG	0117	0091	0114	0101	0135	0008	0017	0136
	0043							

**H**

H & B	0343	0228						
HB	1003	0168	0095	0015	0042	1011		
HAAZ	0228							
HALIFAX	0002	0003						
HAMPTON	0003							
HANSEATIC	0009	0003	0027	0169	0051	0083	0118	0131
	0141	0007	0026					
HANTAREX	0009	0123						
HARWOOD	0171							
HCM	0002	0003	0009	0074	0120			
HIFIVOX	0139							
HINARI	0171	0009	0011	0027	0051	0006	0169	0248
	0043	0137						
HISAWA	0011	0113	0120					
HISENSE	0156							
HITACHI	0027	0019	0085	0134	0153	0213	0140	0144
	0003	0118	0004	0016	0023	0041	0045	0047
	0131	0133	0138	0139	0141	1013	0021	0046
	0033	0123	0142					
HORNYPHON	0051							
HOSHAI	0011							
HUANYU	0003	0115						
HYGASHI	0003							
HYPER	0003	0009	0129	0131				
HYPSON	0002	0003	0051	0169	0120			
HYUNDAI	1010							

**I**

ICE	0009	0002	0003	0011	0051	0068		
IMPERIAL	0047	0051	0083	0129	0131	0021	0043	
INDESIT	0024	0101						
INDIANA	0051	0169						
INGELEN	0021							
INGERSOL	0009							
INNO HIT	0009 0123	0011	0003	0004	0051	0169	0245	0093
INNOVATION	0171 0103	0111 0107	0002 0115	0009 0154	0169 0168	0061 0177	0067 0248	0068 0291
INTERBUY	0009	0129	0109					
INTERFUNK	0051	0129	0169	0139	0141	0000	0021	
INTERTRONIC	0894							
INTERVISION	0002	0003	0014	0109				
IRRADIO	0009	0011	0051	0169	0068			
ISUKAI	0011							
ITC	0003	0131						
ITS	0011	0051	0068	0120				
ITT	0061 0132	0009	0143	0031	0133	0141	0021	0142
ITT/NOKIA	0133	0142	0021					
ITV	0169	0171	0009	0088	0245			

**J**

JEC	0164							
JVC	0051	0053	0027	0068				

**K**

KAISUI	0009	0011	0003	0120				
KAMOSONIC	0003							
KAMP	0003							
KAPSCH	0157	0021						
KARCHER	0169	0003	0009	0016	0037			
KENDO	0019	0014	0028	0108	0245			
KENNEDY	0131	0157						
KINGSLEY	0003							
KING TV	0015							
KNEISSEL	0174							
KOLSTER	0051							
KONKA	0047	0068	0229	0011				
KORPEL	0051	0169						
KORTING	0000							
KOYODA	0009							
KTV	0003							
KURO	0121							
KYOTO	0037							

**L**

LENCO	0009	0245						
LENOIR	0003	0009						
LESA	0129							
LEYCO	0169	0002	0004	0051	0026			
LG	0084	0119	0129	0149	0019	0003	0051	0088
	0131	0169	0171	0009	0261	0093		
LIESENK	0169							
LIFE	0002	0009	0061	0067	0068	0103	0107	0111
	0115	0154	0168	0169	0171	0177	0205	2910
LIFETEC	0177	0038	0171	0002	0009	0206	0205	0207
	0208	0210	0211	0169	0015	0042	0044	0047
	0048	0049	0061	0063	0067	0068	0087	0103
	0107	0115	0127	0154	0155	0168	0170	0185
	0228	0229	0209	0218	1005	0894	0343	0924
	0933	0248	0291					
LOEWE	0097	0098	0051	0169	0000			
LOGIK	0030							
LUMA	0019	0169	0141	0157				
LUMATRON	0002	0171	0019	0088	0051	0074	0169	0107
	0141	0157	0245					
LUX MAY	0051							
LUXOR	0141	0019	0047	0003	0077	0138	0093	0132
<b>M</b>								
M+P	0133							
MAGNADYNE	0014	0129	0131	0169	0000	0123		
MAGNAFON	0003	0014	0043	0123				
MAGNUM	0002	0111	0009	0169	0171	0061	0067	0068
	0103	0107	0115	0154	0168	0177	0200	0291
MANDOR	0002							
MANESTH	0002	0169	0003	0028	0051			
MARANTZ	0051	0169						
MARELLI	0000							
MARK	0051	0169						
MATSUI	0173	0099	0091	0027	0180	0028	0147	0003
	0004	0009	0019	0051	0068	0101	0164	0169
	0248	0113	0123	0013	0062	0026	0030	
MATSUSHITA	0065							
MCMICHAEL	0041							
MEDIATOR	0051	0169						
MEDION	0177	0038	0171	0002	0009	0206	1015	0200
	0205	0207	0208	0210	0211	0169	0015	0042
	0044	0047	0048	0049	0061	0063	0067	0068
	0087	0103	0107	0115	0127	0148	0154	0155
	0168	0170	0185	0228	0229	0209	0218	1005
	0894	0343	0924	0933	0248	0291	1014	
MELECTRONIC	0009	0016	0169	0018	0003	0036	0051	0068
	0110	0115	0139	0021	0109			
MEMOREX	0009	0920						
MEMPHIS	0004	0009						
METZ	0201	0135	0151	0152	0000	0075		



MICROMAXX	0177	0038	0171	0002	0009	0206	0200	0205
	0207	0208	0210	0211	0169	0015	0042	0044
	0047	0048	0049	0061	0063	0067	0068	0087
	0103	0107	0115	0127	0154	0155	0168	0170
	0185	0228	0229	0209	0218	1005	0894	0343
	0924	0933	0248	0291				
MICROSTAR	0177	0038	0171	0002	0009	0206	0200	0205
	0207	0208	0210	0211	0169	0015	0042	0044
	0047	0048	0049	0061	0063	0067	0068	0087
	0103	0107	0115	0127	0154	0155	0168	0170
	0185	0228	0229	0209	0218	1005	0894	0343
	0924	0933	0248	0291				
MINERVA	0017	0101	0135					
MINOKA	0051							
MITSUBISHI	0000	0027	0030	0051	0054	0057	0060	0098
	0101	0135	0205					
MIVAR	0055	0083	0003	0093	0123	0043		
MOTION	0043							
MT LOGIC	0090	1062						
MTC	0132							
MULTI SYSTEM	0169							
MULTITECH	0003	0009	0014	0019	0169	0027	0045	0129
	0131	0043						
MURPHY	0003	0133	0018					
<b>N</b>								
NAD	0141							
NAIKO	0099							
NAONIS	0019	0108						
NATIONAL	0064	0101						
NEC	0185	0027	0056					
NECKERMANN	0003	0169	0008	0019	0022	0051	0083	0118
	0132	0000						
NEI	0051	0068	0169	0113				
NESCO	0129							
NEW WORLD	0011							
NEWTECH	0009	0051						
NICAMAGIC	0003							
NIKKAI	0002	0003	0164	0004	0011	0051	0169	
NOBLIKO	0003	0014	0043					
NOGAMATIC	0139							
NOKIA	0061	0143	0063	0141	0077	0133	0031	0021
	0132	0142						
NORDMENDE	0111	0127	0036	0045	0051	0126	0139	0046
	0000	0021	0024					
NORDVISION	0169							
<b>O</b>								
OCEANIC	0141	1011	0142	0021	1089			
OKANO	0083							
ONCEAS	0003							

ONWA	0069							
ORBIT	0051							
ORION	0099	0147	0159	0009	0212	0028	0051	0154
	0169	0171	0920	0248	0283	0123	0142	0030
	0013	0062						
	0075	0026						
ORMOND	0205							
OSAKI	0011	0002	0003	0004	0074			
OSO	0011							
OSUME	0004	0029						
OTTO VERSAND	0003	0169	0008	0001	0027	0051	0076	0111
	0118	0131	0139	0141	0120	0121	0132	
<b>P</b>								
PACKARD BELL	0204	0203						
PAEL	0003							
PALLADIUM	0003	0083	0012					
PANAMA	0002	0003	0009					
PANASONIC	0065	0067	0064	0197	0072	0186	0101	0141
	0021	0151	0142	0124	0152			
PATHE CINEMA	0003	0083	0131	0037				
PATHE MARCONI	0022	0045	0126	0139	0037	0046		
PAUSA	0009							
PERDIO	0004							
PHILCO	0047	0129	0131	0000	0043			
PHILHARMONIC	0003							
PHILIPS	0200	0088	0217	0202	0020	0169	0003	0041
	0181	0339	0051	0083	0111	0115	0131	0141
	0154	0000	0043	0089				
PHOCUS	0042	0095	1064					
PHOENIX	0051	0169	0000					
PHONOLA	0051	0169	0000					
PIONEER	0010	0145	0036	0051	0139	0169	0021	
PLANTRON	0002	0051						
POPPY	0009							
PORTLAND	0245							
PRANDONI-PRINCE	0019	0141	0123					
PRECISION	0003							
PRIMA	0009	0021						
PRINZ	0047							
PRO2	0177	0038	0171	0002	0009	0206	0200	0205
	0207	0208	0210	0211	0169	0015	0042	0044
	0047	0048	0049	0061	0063	0067	0068	0087
	0103	0107	0115	0127	0154	0155	0168	0170
	0185	0228	0229	0209	0218	1005	0894	0343
	0924	0933	0248	0291				
PROFEX	0009	0141	0043					
PROFILO	0171							
PROFI-TRONIC	0051							
PROLINE	0004	0051	0062					

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PROSONIC	0161 0068	0169 0245	0003	0015	0042	0088	0107	0200
PROTECH	0002 0132	0003 0113	0009	0169	0014	0051	0129	0131
PROVISION	0169	0171	0015					
PYE	0169	0051	0068					
PYMI	0009							
<b>Q</b>								
QUASAR	0129							
QUELLE	0169 0131	0205 0135	0002 0141	0003 0017	0016 0018	0022 0026	0051 0030	0129
QUESTA	0027							
<b>R</b>								
RADIOLA	0051	0169						
RADIOMARELLI	0129	0000	0123					
RADIONETTE	0016	0018						
RADIOTONE	0051	0007						
RANK	0017	0027						
RBM	0017							
RCA	0031							
REDIFFUSION	0141							
REVOX	0051	0169						
REX	0019	0002	0108	0157	0021			
RFT	0000	0007						
R-LINE	0051	0169						
ROADSTAR	0002	0009	0011	0245				
ROBOTRON	0000							
RTF	0000							
<b>S</b>								
SABA	0127 0142	0111 0046	0126 0000	0036 0123	0045 0021	0139	0141	0245
SACCS	0037							
SAISHO	0028	0002	0003	0009	0248	0030	0123	0013
SALORA	0019 0138	0031 0141	0047 0093	0061 0121	0107 0128	0108 0132	0118 0021	0131
SAMBERS	0014	0169	0043	0123				
SAMSUNG	0090 0003	0104 0004	0009 0312	0051 0030	0172 0105	0083 0093	0002	0160
SANDRA	0003	0009						
SANSUI	0051	0920						
SANYO	0004 0127	0006 0160	0031 0131	0003 0029	0027 0030	0016 0040	0018 0043	0083
SAVILLE	0248							
SBR	0041	0169						
SCHAUB LORENZ	0141 0042	0021 1011	0142	0205	1003	0168	0095	0015

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SCHNEIDER	0177 0160	0003 0245	0169 0264	0011 0071	0051 0125	0068	0131	0139
SCHWAIGER	1024							
SEG	0171 0088	0002 0129	0205 0131	0003 1014	0169 0043	0009 0168	0014	0027
SEI-SINUDYNE	0014	0013	0021	0026	0075	0123	0000	
SELECO	0019	0027	0131	0108	0157	0021		
SENCORA	0009							
SENTRA	0164							
SHARP	0001	0059	0005	0027	0187	0188	0029	
SHORAI	0026							
SIAREM	0014	0131	0000	0123				
SICATEL	0037							
SIEMENS	0008	0022	0200	0135	0029			
SIERRA	0051							
SIESTA	0160							
SILVER	0027							
SINGER	0014	0131	0129	0228	0000			
SINUDYNE	0014 0015	0131	0169	0028	0000	0075	0013	0026
SKANTIC	0138	0021						
SKYMASTER	0016							
SKYWORTH	0228							
SOLAVOX	0092	0021						
SONITRON	0006	0031						
SONOKO	0009	0002	0169	0003	0051	0245		
SONOLOR	0006	0021						
SONTEC	0051	0169	0160					
SONY	0165 0004	0130 0182	0183 0029	0106 0030	0076	0027	0127	0009
SOUND & VISION	0011	0014						
SOUNDWAVE	0051	0169						
STANDARD	0003	0009	0011	0051	0245			
STARLIGHT	0169							
STENWAY	0120							
STERN	0019	0157	0021					
SUNKAI	0009	0026	0062					
SUNWOOD	0009	0051						
SUPERLA	0003							
SUPERTECH	0118							
SUPRA	0009							
SUSUMU	0011							
SUTRON	0009							
SYDNEY	0003							
SYSLINE	0169							
<b>T</b>								
TANDBERG	0157	0026						

TANDY	0001	0003	0004	0011	0133	0021		
TARGA	0185	1018	1003	1004				
TASHIKO	0003	0019	0027	0041	0056	0128		
TATUNG	0051	0003	0004	0169	0123			
TCM	0177	0038	0171	0002	0009	0206	1015	1017
	1119	0205	0207	0208	0210	0169	0042	0044
	0047	0061	0063	0067	0068	0103	0107	0115
	0127	0154	0168	0185	0211	0228	0209	1005
	0343	0924	0933	0248	0291			
TEC	0003	0009	0129	0131	0133			
TECHNICS	0065							
TECHNISAT	0154							
TECHNISSON	0042							
TELEAVIA	0022	0036	0045	0111	0126	0139		
TELEFUNKEN	0166	0111	0127	0190	0022	0035	0163	0101
	0102	0036	0050	0051	0052	0078	0108	0126
	0139	0079						
TELETECH	0169	0009	0088	0129	0113			
TELETON	0003	0157	0118	0132				
TENSAI	0011	0168	0018	0051	0026			
TESMET	0051							
TEVION	0177	0038	0171	0002	0009	0206	1015	0200
	0205	0207	0208	0210	0211	0169	0015	0042
	0044	0047	0048	0049	0061	0063	0067	0068
	0087	0103	0107	0115	0127	0154	0155	0168
	0170	0185	0228	0229	0209	0214	0218	1005
	1016	0894	0343	0924	0933	0248	0291	1064
TEXET	0003							
THOMSON	0166	0127	0111	0003	0022	0036	0045	0176
	0101	0102	0050	0051	0052	0126	0139	0163
	0185	0245	0046					
THORN	0004	0018	0169	0035	0054	0111	0127	0141
	0164	0037						
TOKAI	0004	0051						
TOKYO	0003							
TOMASHI	0120							
TOSHIBA	0117	0164	0189	0027	0146	0017	0920	0082
TOWADA	0131	0021						
TRIUMPH	0013	0123	0082					
<b>U</b>								
UHER	0051	0157	0021	0043				
ULTRAVOX	0003	0014	0129	0131	0133	0000		
UNITED	0088	0169						
UNITED QUICK STAR	0245							
UNIVERSUM	0102	0002	0016	0018	0051	0061	0169	0083
	0110	0122	0129	0131	0143			
UNIVOX	0037							
<b>V</b>								

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VESTEL	0019 0118 1014	0051 0129	0169 0131	0171 0138	0083 0168	0092 0195	0103 0205	0107 0021
VEXA	0169	0009						
VICTOR	0027	0051	0065					
VIDEO SYSTEM	0051							
VIDELOGIQUE	0011	0003						
VIDEON	0248							
VIDEOSAT	0129							
VISIOLA	0003							
VISION	0051							
VISOREX	0096							
VISTAR	0133							
VORTEC	0051	0169						
VOXSON	0019	0051	0108	0021	0043			

## W

WALTHAM	0003	0133	0138	0037				
WATSON	0051	0169						
WATT RADIO	0003	0014	0131	0037				
WEGA	0000	0027						
WELLTECH	0042							
WELTBlick	0051	0169						
WESTON	0131							
WHARFEDALE	0099							
WHITE WESTINGHOUSE			0169	0003	0014	0043		
WORLD OF VISION	1021							

## Y

YAKUMO	1012							
YOKO	0009	0011	0051	0169	0002	0003		
YORX	0011							

## Z

ZANUSSI	0019	0157	0108					
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## VCR

### A

AIWA	0230	0233	0256	0293	0231	0248	0291	
AKAI	0300	0329	0307	0237	0236	0238	0239	0293
AKIBA	0275							
AKURA	0275	0244	0293					
ALBA	0275	0233	0250	0245	0248	0246	0247	
ALLORGAN	0311							
AMBASSADOR	0250							
AMSTRAD	0253	0231	0254					
ANITECH	0275							
APEX	0949							

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ASA	0257	0256						
ASUKA	0275	0257	0231	0256				
<b>B</b>								
BAIRD	0259	0231	0258	0245	0237	0293		
BASIC LINE	0275	0233	0250	0245				
BAUR	0263	0257						
BESTAR	0250	0245						
BLACK PANTHER LINE	0245							
BLAUPUNKT	0263	0257	0262	0260	0309	0325	0271	
BONDSTEC	0250							
BRANDT	0303	0305						
BROKSONIC	0277	0967						
BUSH	0275	0233	0245	0248	0246	0247	0288	
<b>C</b>								
CATRON	0250							
CGE	0231	0293						
CIMLINE	0275	0233						
CINEVISION	0256							
CLATRONIC	0250							
COMBITECH	0248							
CONDOR	0250	0245						
CROWN	0275	0250	0245					
CYBERCOM	0233	0311	0262	0269	0319	0256	0248	0291
	0338	0905	0906					
CYBERMAXX	0233	0311	0262	0269	0319	0256	0248	0291
	0338	0905	0906					
CYTRON	0233	0311	0262	0269	0319	0256	0248	0291
	0338	0905	0906					
<b>D</b>								
DAEWOO	0274	0250	0265	0319	0245	0971		
DANSAI	0275							
DANTAX	0233							
DAYTRON	0245							
DE GRAAF	0266	0257						
DECCA	0257	0231	0293					
DUAL	0233	0256	0257	0311	0262	0319	0293	0248
	0291	0338	0905	0906				
DUMONT	0266	0257	0231	0258				
<b>E</b>								
ELTA	0275							
EMERSON	0231	0256	0301	0339				
ESC	0245							
ETZUKO	0275							
<b>F</b>								
FERGUSON	0294	0259	0271	0278	0293	0281	0305	

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FIDELITY	0311	0231						
FINLANDIA	0266	0257	0258					
FINLUX	0266	0298	0257	0231	0258	0293	0237	
FIRSTLINE	0266	0275	0233	0265	0298	0256		
FISHER	0258	0279						
FLINT	0233							
FORMENTI-PHEONIX	0257							
FRONTECH	0250							
FUJITSU	0231							
FUNAI	0231	0339						
<b>G</b>								
GALAXY	0231							
GBC	0275	0250						
GEC	0257							
GELOSO	0275							
GENERAL	0250							
GENERAL TECHNIC	0262	0233	0311	0248				
GOLDHAND	0275							
GOLDSTAR	0231	0256						
GOODMANS	0275	0250	0259	0256	0231	0245	0283	0282
GO-VIDEO	0338	0367	0971					
GRAETZ	0258	0293						
GRANADA	0257	0266	0240	0258	0271			
GRANDIN	0275	0250	0256	0231	0245			
GRUNDIG	0273	0270	0263	0235	0243	0257	0260	0272
	0275	0286	0287	0290	0315	0271	0288	
<b>H</b>								
HAAZ	0233							
HANSEATIC	0257	0256						
HCM	0275	0288						
HINARI	0275	0233	0248	0288	0301			
HISAWA	0233							
HITACHI	0266	0257	0268	0231	0293	0387		
HYPSON	0233	0275						
<b>I</b>								
IMPEGO	0250							
IMPERIAL	0231							
INNO HIT	0250	0257	0275	0245				
INNOVATION	0233	0311	0262	0248	0291			
INTERBUY	0256							
INTERFUNK	0257	0258						
INTERVISION	0231							
IRRADIO	0275	0256						
ITT	0237	0293	0258	0292				
ITV	0256	0245						

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**J**

JVC	0294	0295	0293	0400				
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**K**

KAISUI	0275							
KARCHER	0257							
KENDO	0233	0250	0265	0300	0245	0236	0237	
KENWOOD	0293							
KORPEL	0275							

**L**

LENCO	0245							
LEYCO	0275							
LG	0231	0256	0261	0907				
LIFE	0291	0256						
LIFETEC	0233 0338	0311 0905	0262 0906	0269	0319	0256	0248	0291
LOEWE	0267	0325	0262	0257	0256	0271		
LOGIK	0275							
LUMATRON	0274	0245						
LUXOR	0298	0258	0237	0281				

**M**

MAGNASONIC	0258							
MAGNAVOX	0914	0285						
MAGNUM	0291							
MANESTH	0275	0265						
MARANTZ	0257	0271	0281	0299				
MATSUI	0233	0256	0248	0301				
MEDIATOR	0257							
MEDION	0233 0338	0311 0905	0262 0906	0269	0319	0256	0248	0291
MELECTRONIC	0231							
MEMOREX	0240	0256	0231	0258	0279			
MEMPHIS	0275							
METZ	0262	0263	0267	0273	0325	0271		
MICROMAXX	0233 0338	0311 0905	0262 0906	0269	0319	0256	0248	0291
MICROSTAR	0233 0338	0311 0905	0262 0906	0269	0319	0256	0248	0291
MIGROS	0231							
MINERVA	0263	0271						
MINIBISHI	0298	0257	0289	0294	0231			
MULTITECH	0275	0250	0257	0231				
MURPHY	0231							

**N**

NATIONAL	0262	0260						
NEC	0294	0293	0299					

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NECKERMANN	0257	0293	0301					
NEI	0257							
NESCO	0275							
NIKKAI	0250	0302						
NOKIA	0240	0300	0307	0258	0237	0292	0293	
NORDMENDE	0294	0293	0303	0305				
<b>O</b>								
OCEANIC	0240	0231	0293					
OKANO	0233	0300						
ORION	0234	0233	0304	0248	0283	0301	0246	
ORSON	0231							
OSAKI	0275	0231	0256					
OTTO VERSAND	0257							
<b>P</b>								
PALLADIUM	0275	0300	0256	0271	0293			
PANASONIC	0262	0267	0260	0314	0321	0325	0970	
PATHE CINEMA	0301							
PATHE MARCONI	0293							
PENTAX	0266							
PERDIO	0231							
PHILCO	0299							
PHILIPS	0235 0271	0257 0293	0290 0969	0315	0327	0286	0285	0242
PHONOLA	0257							
PIONEER	0294	0257	1084					
POLAROID	0949							
PORTLAND	0250	0245						
PRINZ	0231							
PRO2	0233 0338	0311 0905	0262 0906	0269	0319	0256	0248	0291
PROFEX	0275							
PROLINE	0231	0288						
PROSONIC	0233	0245						
PYE	0257							
<b>Q</b>								
QUARTZ	0258							
QUELLE	0257	0263	0258	0231	0271	0301		
<b>R</b>								
RADIOLA	0257							
REX	0293							
RFT	0250	0257						
ROADSTAR	0275	0256	0245					
<b>S</b>								
SABA	0324	0245	0281	0293	0303	0305		
SAISHO	0275	0233	0248	0301				

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SALORA	0298	0258	0237	0292				
SAMSUNG	0311	0312	0338	0963				
SAMURAI	0250							
SANSUI	0294	0244	0293	0920				
SANYO	0284	0258	0279					
SAVILLE	0248							
SBR	0257							
SCHAUB LORENZ	0258	0237	0231	0293				
SCHNEIDER	0275 0245	0233	0265	0250	0257	0256	0231	0264
SEG	0275	0319						
SEI-SINUDYNE	0257							
SELECO	0293							
SENTRA	0250							
SETRON	0275							
SHARP	0240	0241	0328	0281				
SHINTOM	0275	0258						
SHIVAKI	0256							
SIEMENS	0263	0256	0258	0271				
SILVA	0256							
SILVERCREST	0256							
SINUDYNE	0257							
SOLAVOX	0250							
SONOKO	0245							
SONOLOR	0240							
SONTEC	0256							
SONY	0232 0402	0308	0309	0310	0313	0249	0251	0255
STANDARD	0245							
STRONG	0244							
SUNKAI	0233							
SUNSTAR	0231							
SUNTRONIC	0231							
SUNWOOD	0275							
SYLVANIA	0339	0231						
<b>T</b>								
TAISHO	0233							
TANDBERG	0263							
TARGA	0256	0907						
TASHIKO	0240	0231						
TATUNG	0257	0231	0293					
TCM	0233 0291	0256 0338	0311 0905	0262 0906	0269	0319	0375	0248
TEC	0250							
TECHNICS	0262	0260						
TELEAVIA	0293							

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TELEFUNKEN	0306 0305	0294	0324	0295	0323	0280	0293	0303
TENOSAL	0275							
TENSAI	0275	0231	0256					
TEVION	0233 0338	0311 0905	0262 0906	0269	0319	0256	0248	0291
THOMSON	0294 0305	0324	0295	0323	0326	0245	0242	0293
THORN	0258	0293	0301					
TIVO	0242							
TOKAI	0275	0256						
TONSAI	0275							
TOSHIBA	0320	0257	0265	0298	0319	0362	0293	
TOWADA	0275							
TOWIKA	0275							
TRIUMPH	0301							
TVA	0250							

## U

UHER	0256							
UNITED QUICK STAR	0245							
UNIVERSUM	0290 0239	0235 0253	0263 0271	0257	0315	0256	0231	0237

## V

VICTOR	0294	0295						
VIDEON	0233	0262	0311	0248				

## W

WELTBlick	0256							
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## Y

YAMISHI	0275							
YOKAN	0275							
YOKO	0275	0250	0256					

## Z

ZENITH	0256							
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## DVD

### A

ACCOUSTIC SOLUTIONS			0383	0350				
AEG	0894	0333						
AFREY	0386							
AIRIS	0357							
AIWA	0383	0377						
AKAI	0369	0333	0382	0350	0894			
AKASHI	0346							
ALBA	0384	0350	0381	0357	0370	0351		

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Model Number: 20043

ALL-TEL	0333							
AMES	0383							
AMSTRAD	0350							
AMW	1053	1054						
ANABA	0961							
ANSONIC	0356							
APEX	0921	0384	0357	0911	0390	0913	1083	0949
ARENA	0923							
ASPIRE	0952							
A-TREND	0347							
AUDIOSONIC	0382	1062						
AUDIOVOX	0942							
AXION	0942							

## B

B & K	0978							
BAIER	0349							
BAZE	0357							
BEKO	1064							
BLACK DIAMOND	0350							
BLAUPUNKT	0384							
BLUE NOVA INTERNATIONAL		1051						
BLUE SKY	0373	0357	0350					
BOMAN	0894	0351						
BRANDT	0373	0360	0362					
BROKSONIC	0920	0967						
BUSH	0384	0382	0350	0381	0356			

## C

CAMBRIDGE	0376							
CELESTIAL	0357							
CENTREX	0357							
CENTRIOS	0932	0951	0954	0955				
CENTRON	0932							
CENTRUM	0346	0926	0928	0350	0927			
CINETEC	0350							
CINEVISION	0375							
CLASSIC	0383							
CLATRONIC	0357	0894						
CMI	0923							
COBY	0332	0916	0946	0947	0357	1051	0948	
CONTEL	0894							
CRITERION	0344							
CROWN	0373	0382						
C-TECH	0341							
CURTIS	0950	0948						

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Model Number: 20043

CYBERCOM	0356	0930	0932	0330	0335	0339	0340	0341
	0342	0345	0352	0358	0371	0923	0375	0343
	0924	0933	0338	0334	0344	0664	0372	0373
CYBERHOME	0347	0912	0985	1075				
CYBERLINK	1101							
CYBERMAXX	0356	0930	0373	0932	0330	0335	0339	0340
	0341	0342	0345	0352	0358	0371	0895	0896
	0897	0898	0899	0900	0901	0902	0903	0904
	0923	0893	0959	1069	1070	1071	1067	1066
	1068	1117	1118	0905	0343	0924	0933	0375
	0906	0338	0372	0334	0344	0664	0894	
CYTRON	0356	0930	0373	0932	0330	0335	0339	0340
	0341	0342	0345	0352	0358	0371	0380	0895
	0896	0897	0898	0899	0900	0901	0902	0903
	0904	0923	0893	0959	1069	1070	1071	1067
	1066	1068	1117	1118	0905	0343	0924	0933
	0375	0906	0338	0372	0334	0344	0664	0894

## D

DAEWOO	0353	0354	0965	0355	0347	0380	0925	0971
DANSAI	0351							
DAYTRON	0925							
DCE	0356							
DENON	0364	0389						
DENVER	0381	1051	0894					
DENZEL	0392							
DESAY	0958							
DIAMOND	0373	0341						
DIGIFRAME	0930							
DIGIHOME	0350							
DIGITOR	0382							
DIGITREX	0357							
DIGITRON	0386							
DIGIX	0962							
DIK	0356							
DISNEY	0339	0902						
DiViDo	0380							
DIVX	0375	0932						
DK DIGITAL	0356							
DMTECH	0351	0333						
DRAGON SYSTEMS	0356							
DUAL	0350	0356	0984	0383	0956	0373	0330	0335
	0337	0340	0392	0341	0342	0345	0352	0358
	0371	0923	0351	0333	0343	0338	0372	0334
	0344	0664	0375	0924	0933			
DURABRAND	0333	0375	0356	0933	1085	1086	1087	1088
DVD	1024	0929						

## E

E-BENCH	0341							
ELTA	0365	0382	0894	0333				

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Model Number: 20043

ELTAX	1051			
EMERSON	0380	1057	0339	0375
ENCORE	0386			
ENZER	0392			
ESA	0956			
EUROLINE	0894			

## F

FARENHEIT	0960			
FERGUSON	0373			
FINLUX	0375	0357	0351	
FINTEC	0350			
FIRSTLINE	0373			
FISHER	0378			
FUNAI	0339			

## G

GE	0384							
GERICOM	1064							
GOLDEN SPHERE	0341							
GOLDSTAR	0375	0907	0972					
GOODMANS	0373	0382	0350	0333	0351			
GO-VIDEO	0383	1059	1061	0338	0367	0971	0351	
GPX	0910							
GRADIENSTE	0373							
GRAETZ	0392							
GRAN PRIX	0356							
GRANDIN	0357							
GRUNDIG	0385	0370	0380	0373	0378	0376	0350	0333

## H

H & B	0350	0343						
HB	1089							
HAAZ	0341	0342						
HANSEATIC	0375	0351	0333					
HARMON/KARDON	0395							
HCM	0894							
HE	0383							
HITACHI	0367	0368	0392	0387	0350			
HITEKER	0357							
HOHER	0356							
HOME ELECTRONICS	0383							
HOMITA	0934	0935	0936	0937	0938			
HOYO	0392							
HYUNDAI	0351							

## I

ILO	0959							
INITIAL	0384							

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Model Number: 20043

INTEGRA	0374							
INTERTRONIC	0893	0933	0894					

**J**

JATON	0392							
JBL	0395							
JDB	0383							
JVC	0361	1058	0362	0400	0964	0662	1072	
JWIN	1076	1083						

**K**

KARCHER	0351							
KAWASHI	0333							
KENDO	0356	0923	0350					
KENNEX	0350							
KENWOOD	0393	0364						
KISS	0392							
KLH	0384							
KONKA	0908	0909						
KOSS	0358	0373						

**L**

LASONIC	0341							
LAWSON	0341	0380						
LECSON	0376							
LENCO	0373	0350	0356					
LENOXX	0931	0346	0382					
LG	0375	0907	0972					
LIFE	0372	0373	1117	1118				
LIFETEC	0356	0930	0373	0932	0330	0335	0339	0340
	0341	0342	0345	0352	0358	0371	0895	0896
	0897	0898	0899	0900	0901	0902	0903	0904
	0923	0893	0959	1069	1070	1071	1067	1066
	1068	1117	1118	0905	0343	0924	0933	0375
	0906	0338	0372	0334	0344	0664	0894	

LIMIT	0341							
LINN	0336							
LITEON	0982	1056	1059	0959				
LODOS	0350							
LOEWE	0370	0375						
LOGIX	0351	0380						
LUMATRON	0332	0342	1051	0350	0383	0380		
LUXMAN	0367							
LUXOR	0350	0383						

**M**

MAGNAVOX	0362	0379	0979	0980	0981	0370	0350	0914
MANHATTAN	0350	0380						
MARANTZ	1079	0370	0379	0981	0375	0362		
MARK	0350							
MASTEC	0335							



MATSUI	0373	0357	0350					
MAXDORF	0894							
MAXIM	0331	0350						
MBO	0396	0383	0382					
MEDION	0356	0930	0373	0932	0330	0335	0339	0340
	0341	0342		0345	0352	0358	0371	0351
	0895	0896	0897	0898	0899	0900	0901	0902
	0903	0904	0923	0893	0959	1069	1070	1071
	1067	1066	1068	1115	1116	1117	1118	0905
	0343	0924	0933	0375	0906	0338	0372	0334
	0344	0664	0894					
MEMOREX	0356	0339	0920					
MERIDIAN	0362							
METZ	0368	0350	0922					
MICROMAXX	0356	0893	0930	0373	0932	0330	0335	0339
	0340	0341	0342	0345	0352	0358	0371	0895
	0896	0897	0898	0899		0900	0901	0902
	0903	0904	0923	0959	1069	1070	1071	1067
	1066	1068	1117	1118	0905	0343	0924	0933
	0375	0906	0338	0372	0334	0344	0664	0894
MICROMEGA	0370							
MICROSOFT	0399							
MICROSTAR	0356	0930	0373	0932	0330	0335	0339	0340
	0341	0342	0345	0352	0358	0371	0895	0896
	0897	0898	0899	0900	0901	0902	0903	0904
	0923	0893	0959	1069	1070	1071	1067	1066
	1068	1117	1118	0905	0343	0924	0933	0375
	0906	0338	0372	0334	0344	0664	0894	
MINATO	0349							
MINERVA	0380							
MINTEK	0384							
MIRROR	0349							
MITSUBISHI	0350	0366						
MONYKA	0392							
MT LOGIC	1062							
MUSTEK	0383							
MxONDA	0373							
MYSTRAL	0356							
<b>N</b>								
NAD	0375	0394						
NAKAMICHI	0398							
NEC	0375							
NEOTEK	0386							
NEUFUNK	0392							
NEVIR	0356							
NEXXTECH	0932	0954	0955	0956				
NORCENT	0332	0982	0944	0945	0948			
NORDMENDE	0356							
NORIKO	0349							

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**O**

OCEANIC	1089	
OKANO	0349	0362
OMNI	0382	
ONIX	0346	
ONKYO	0374	0975
OPTIMUS	0368	0922
ORION	0920	0335
ORITRON	0373	

**P**

PACIFIC	0356	0350	0333					
PACKARD BELL	0939	0940	1101	1052				
PALSONIC	0357							
PANASONIC	0401	0364	0403	0970	0974			
PANDA	0351							
PHILIPS	0370	0379	0979	0980	0981	0362	1080	1123
	1128	0969	0339					
PHOCUS	1063	1064						
PHONOTREND	0916							
PIONEER	0368	0977	0922	0968	0976	1084		
POLAROID	0957	0949						
PORTLAND	0382							
PRINZ	0356							
PRISM	0335							
PRO2	0356	0930	0373	0932	0330	0335	0339	0340
	0341	0342	0345	0352	0358	0371	0895	0896
	0897	0898	0899	0900	0901	0902	0903	0904
	0923	0893	0959	1069	1070	1071	1067	1066
	1068	0905	0343	0924	0933	0375	0906	0338
	0372	0334	0344	0664	0894			
PROCASTER	0905							
PROLINE	0373	0357	0333	0376	0397			
PROSCAN	0399							
PROSON	0350							
PROSONIC	0332	0341	0349					
PROVISION	0381	1051						

**Q**

QUARTEK	1077	
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**R**

RADIONETTE	0375	
RAITE	0392	
RCA	0399	0384
REDSTAR	0894	
RELISYS	0923	0895
REOC	0341	
REX	0346	

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Model Number: 20043

ROADSTAR	0350	0383	0382		
RONIN	0397				
ROTEL	0361				
ROWA	0384	0922			
RTL	0923				

## S

SABA	0373	0915	0360		
SAIVOD	0356				
SALORA	0375				
SAMPO	0341	0386	0923	0895	1051
SAMSUNG	0367	1050	0338	0963	0919
SANSUI	0341	0920			
SANYO	0350	0333	1060	0378	
SCAN	0380				
SCHAUB LORENZ	0894	1089			
SCHWAIGER	0349				
SCIENTIFIC LABS	0341				
SCOTT	0373	0357			
SEG	0350	0341	0392		
SHARP	0371	0394	1055	0350	
SHERWOOD	0391				
SHINCO	0384				
SHINSONIC	0384				
SILVA	0894				
SILVA SCHNEIDER	0356				
SILVERCREST	0341	1093	1090	1091	1092
SINGER	0341	0382			
SKYMASTER	0382	0383			
SM ELECTRONIC	0382	0383	0341		
SMART	0350	0380			
SONY	0363	0987	0988	0989	0402 0986
SOUNDMASTER	0341				
SOUNDMAX	0341				
SOUNDSTORM	0330				
SOUNDWAVE	0351				
STANDARD	0373				
STRONG	0350				
SUNGALE	0953				
SUPERVISION	0382	0383			
SVA	0349				
SYLVANIA	0339				
SYNN	0341				

## T

TANDBERG	0350				
TANGENT	1051				

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

TARGA	0375 1041	1115 0907	0959	0891	1117	0972	1094	1121
TCM	0356 0333 1119 0664	0930 0341 0343	0373 0342 0924	0932 0345 0933	0330 0352 0338	0335 0358 0372	0339 0371 0334	0340 0923 0344
TEAC	0368	0333	0341	0384	0375			
TECHNICS	0364	0399						
TECHNIKA	0356							
TECHWOOD	0394	0350	0370					
TECO	0923	0895						
TEDELEX	0382							
TELEDEVICE	1051							
TELEFUNKEN	0894	0333						
TELETECH	0350							
TENSAI	0373	0382						
TERAPIN	0943							
TEVION	0356 0340 0892 0902 1068 0890 0917	0930 0341 0895 0903 1069 0905 0918	0373 0342 0896 0904 1070 0343 0372	0932 0345 0897 0923 1071 0924 0334	0330 0352 0898 0966 1067 0933 0344	0335 0358 0899 0893 1066 0375 0664	0337 0371 0900 0959 1117 0906 0894	0339 0891 0901 1065 1118 338 1064
THETA DIGITAL	0368							
THOMSON	0360	0359	0399	1078				
TINY	1051							
TOKAI	0894	0392						
TOKIWA	0380							
TOSHIBA	0973	1110	1120	0362	0983	0920	1111	
TRANS-CONTINENTS	0356	1051						
TRANSONIC	0357							
TREDEX	0941							
TRUTECH	1075							
<b>U</b>								
UMAX	0382							
UNITED	0333	0348	0357	0894				
UNIVERSUM	0350	0375	0333					
<b>V</b>								
VENTURER	0333							
VESTEL	0350							
VIETA	0380							
VOXSON	0383	0356	0382					
<b>W</b>								
WALKVISION	0384							
WELKIN	0356							
WESTAR	0350							

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WHARFEDALE	0376	0349	0341	0386				
WILSON	0356							
<b>X</b>								
X-BOX	0399							
XENIUS	0373	0358						
XLOGIC	0341							
XMS	0894							
<b>Y</b>								
YAKUMO	0357	1083	0905					
YAMAHA	0364	0388	0979	0980	0370			
YAMAKAWA	0397	0392	0382					
YUKAI	0383							
<b>Z</b>								
ZENITH	0375	0907						

## CD

### A

ADCOM	0848							
AIWA	0849	0850	0851	0751				
AKAI	0853	0854	0855					
ALBA	0856							
ARCAM	0732							

### B

BESTAR	0859							
BSR	0860							
BUSH	0661							

### C

CARRERA	0663							
CLASSIC	0807							
CONDOR	0860							
CYBERCOM	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0818	0819				
CYBERMAXX	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0818	0819				
CYTRON	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0818	0819				

### D

DENON	0665	0666						
DUAL	0843	0848	0664	0668	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0798	0801	0802
	0803							

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**E**

E-BENCH	0811							
ELTA	0667	0668	0693	0694	0745			
EMERSON	0848	0859						

**F**

FISHER	0669							
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**G**

GENEXXA	0859	0671	0672	0673	0675	0676	0677	
GOLDSTAR	0663							
GOODMANS	0678	0679						
GRUNDIG	0680	0697	0698	0732				

**H**

HARMON/KARDON	0683							
HITACHI	0848	0685	0686					

**I**

INNOVATION	0730	0742	0743	0744	0745	0746	0747	
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**J**

JVC	0662	0687						
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**K**

KENWOOD	0669	0688	0689	0690	0762			
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**L**

LIFETEC	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0818	0819				
LG	0663							
LINN	0732							
LUXMAN	0691							

**M**

MAGNUM	0730	0742	0743	0744	0745	0746	0747	
MARANTZ	0695	0732						
MATSUI	0696	0732						
MEDION	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0818	0819				
MEMOREX	0848	0859	0677					
MERIDIAN	0732							
MICROMAXX	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0818	0819				
MICROMEGA	0732							
MICROSTAR	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0818	0819				
MISSION	0732							

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**N**

NAD	0671	0733	0735	0736	0737 0800			
NAIM	0732							
NAKAMICHI	0699	0700						
NUVO	0866							

**O**

ONKYO	0840	0701	0702	0703	0785 0792			
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**P**

PANASONIC	0661	0705						
PHILIPS	0847	0706	0732					
PHILIPS CD-V	0840							
PIONEER	0673	0677	0753					
PRO2	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0818	0819				
PROTON	0732							

**Q**

QUAD	0732							
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**R**

REALISTIC	0848	0859	0675					
ROADSTAR	0706	0708						
ROTEL	0732							

**S**

SABA	0848							
SAE	0732							
SAMSUNG	0768							
SANSUI	0847	0709	0710	0711	0732			
SCHNEIDER	0860	0732						
SCOTT	0859							
SHARP	0672	0712	0713	0714				
SHERWOOD	0782							
SILVERCREST	0811							
SINGER	0803							
SKYMASTER	0778							
SONY	0671	0716	0717	0718	0741	0748	0749	0750

**T**

TANDBERG	0732							
TCM	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0823	0824	0825			
TEAC	0795							
TECHNICS	0705	0721	0763	0787				
TELEFUNKEN	0848							

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TEVION	0843	0664	0668	0674	0675	0694	0730	0742
	0743	0744	0745	0746	0747	0801	0802	0803
	0807	0809	0813	0814	0816	0818	0819	0821
	0822							

THEORIE & ANWENDING		0804						
THOMSON	0842	0848						
TOSHIBA	0722	0723						

## U

UNIVERSUM	0732							
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## V

VECTOR RESEARCH	0663							
VICTOR	0687							

## W

WELLTECH	0675	0694	0744	0811	0827	0828		
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## Y

YAMAHA	0712	0720	0725	0771				
YORX	0708							

# SAT

## A

AKAI	0552							
ALBA	0508	0562	0405	0407				
ALDES	0408	0409						
ALLSAT	0462	0410	0552					
ALLSONIC	0408	0428						
AMPERE	0422							
AMSTRAD	0584	0555	0541	0415	0416	0417	0419	
ANKARO	0408	0428	0424					
ANTTRON	0405	0407						
APOLLO	0405							
ARCON	0415	0422	1155	1144	1153	0424	0463	1154
ARMSTRONG	0419							
ASAT	0552							
AST	0435							
ASTON	0594	0406						
ASTRA	0429	0419	0431	0432	0502			
ASTRO	0428	0439	0569	0407	0409			
AUDIOTON	0462	0407						
AURORA	0602							
AUSTAR	0602	0643	0642					
AXIS	0428	0415	0432	0456				

## B

BARCOM	0424							
BEST	0428	0424						

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043



BLAUPUNKT	0439			
BOCA	0419	0502		
BRAIN WAVE	0444	1131		
BRANDT	0565	0566	0567	0574
BSKYB	0584	0555		
BT SATELLITE	0574			
BUSH	0508	0562	0410	

## C

CANAL SATELLITE	0569	0599						
CANAL+	0569	0599						
CHAPARRAL	0507							
CHESS	0547	0586						
CITYCOM	0508	0640	0459					
CLATRONIC	0444							
CLEMENS KAMPHUS	0491							
CNT	0409							
COLUMBUS	0477							
COMAG	0471							
COMMLINK	0408							
COMTECH	0456							
CONDOR	0428	0640						
CONNEXIONS	0438	0454						
CONRAD	0640	1156						
CONTEC	0456	0459						
COSAT	0462							
CROWN	0419							
CYBERCOM	0412	0413	0423	0428	0442	0493	0504	0511
	0514	0546	0566	0583	0586	0587	0618	0619
CYBERMAXX	0412	0413	0423	0428	0442	0466	0478	0484
	0493	0504	0511	0514	0535	0546	0566	0583
	0586	0587	0618	0619	0644	0650	0652	0653
	1130	1138	1137					
CYTRON	0412	0413	0423	0428	0442	0466	0478	0484
	0493	0504	0511	0514	0535	0546	0566	0583
	0586	0587	0618	0619	0644	0650	0652	0653
	1130	1138	1137					

## D

DAERYUNG	0438			
DANSAT	0410			
D-BOX	0564	0604		
DECCA	0460			
DEW	0456			
DIAMOND	0461			
DIGIALITY	0640			
DISKXPRESS	0424	0454		
DITRISTRAD	0462			
DMT	0412			

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

DNT	0438	0552						
DRAKE	0557	0463						
DREAMBOX	0658							
DStv	0602							
DUAL	0412	0413	0423	0428	0493	0504	0511	0566
	0583	0586	0587	0618	0514			

## E

ECHOSTAR	0640	0581	0586	0425	0481	0578	0579	0580
	0657	0659	0464	0465	0467			
EINHELL	0408	0417	0405	0419				
ELEKTA	0409							
ELTA	0428	0462	0405	0552				
EMANON	0405							
EMME ESSE	0428	0508	0491					
EMTECH	1162							
EP SAT	0508	0491						
E-TEK	1140							
EUROPHON	0640							
EUROSAT	0419							
EUROSKY	0428	0640	1156	0419				
EUROSPACE	0468							
EUROSTAR	0438	0419						
EVA	0588	0589						
EXATOR	0405	0407						

## F

FERGUSON	0508	0472	0603	0410	0473			
FIDELITY	0415	0417						
FINLANDIA	0508							
FINLUX	0508	0429	0608	0475	0480	0487		
FINNSAT	0603	0456						
FORCE	0577	0553	0535					
FORTEC STAR	0470							
FOXTEL	0602	0643	0584					
FRACARRO	0562							
FRANCE SATELLITE/TV	0477							
FREECOM	0405	0489						
FTE	0422	0496						
FUBA	0548	0439	0428	0438	0405	0424	0431	0477
	0480	0552						
FUNTACH	0587							

## G

GALAXIS	0428	0408	0462	0478	0484	0535	0582	0583
	0602	0619	0432	0456				
GALAXY	0424							
GLOBECAST	1141							
GLOBO	1156							

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

GMI	0419							
GOLDSTAR	0489							
GOODING	0483							
GOODMANS	0508							
GRANADA	0429							
GROTHUSEN	0405	0489						
GRUNDIG	0439	0436	0483	0495	0508	0544	0469	0602
	0584	0407	0550					

## H

HANDAN	0547	1167						
HANSEATIC	0504							
HANTOR	0444	0405						
HANURI	0409							
HB	1162	0413						
HELIOCOM	0422							
HIRSCHMANN	0439	0522	0547	0548	1156	1165	1174	0487
	0488	0491	0558					
HISAWA	0444							
HITACHI	0508	0537						
HOUSTON	0462							
HUMAX	0485	0517	0582					
HUTH	0408	0411	0444	0462	0419	0491		
HYUNDAI	0486							

## I

IMPERIAL	0562							
INNOVATION	0428	0493	0504	0511	0583	0586	0587	0618
INTERTRONIC	0419							
INTERVISION	0462							
IRDETO	0602							
ITT/NOKIA	0429	0508	0548	0454	0487	0537		

## J

JOHANSSON	0444							
JSR	0462							
JVC	0483							

## K

KATHREIN	0549	0617	0631	0607	0635	0439	0459	0496
	0507	0552						
KOSMOS	0489	0491	0496					
KR	0407							
KREISELMEYER	0439							
KYOSTAR	0405							
L								
LASAT	0428	0565	0566	0567	1156	1157	0409	0502
LENCO	0405	0489	0503					
LENG	0444							
LENNOX	0462							

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

LENSON	0479							
LG	0489							
LIFE	0583							
LIFESAT	0412	0413	0423	0428	0442	0493	0504	0511
	0514	0546	0566	0583	0586	0587	0618	0619
LIFETEC	0412	0413	0423	0428	0442	0466	0478	0484
	0493	0504	0511	0514	0535	0546	0566	0583
	0586	0587	0618	0619	0644	0650	0652	0653
	1130	1138	1137					
LION	0468							
LORENTZEN	1156							
LORRAINE	0489							
LUPUS	0428							
LUXOR	0417	0429	0548	0537				
<b>M</b>								
MACAB	0603							
MANHATTAN	0462	0508	0557	0633	0421	0409		
MARANTZ	0552							
MARMITEK	0641							
MARMITEK OCTOPUS	0655							
MASCOM	0409							
MASPRO	0483	0508	0507	0558				
MATSUI	0483	0574						
MB	0504							
MBOX	0442							
MEDIABOX	0569							
MEDIAMARKT	0419							
MEDIASAT	0569	0432						
MEDION	0412	0413	0423	0428	0442	0466	0478	0484
	0493	0504	0511	0514	0535	0546	0566	0583
	0586	0587	0618	0619	0644	0650	0652	0653
	1130	1139	1138	1137	1181			
MEGA	0552							
METRONIC	0408	0575	0612	0613	0614	0615	0632	0409
	0424	0405						
0407								
METZ	0439							
MICRO TECHNOLOGY		0468						
MICROMAXX	0412	0413	0423	0428	0442	0466	0478	0484
	0493	0504	0511	0514	0535	0546	0566	0583
	0586	0587	0618	0619	0644	0650	0652	0653
	1130	1139	1138	1137				
MICROSTAR	0412	0413	0423	0428	0442	0466	0478	0484
	0493	0504	0511	0514	0535	0546	0566	0583
	0586	0587	0618	0619	0644	0650	0652	0653
	1130	1138	1137					
MINERVA	0483	0439						
MITSUBISHI	0508	0439	0574					
MITSUMI	0502							

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

MORETV	0644	0423	1130	1181				
MORGAN SYDNEY	0611							
MORGANS	0611	0419	0502	0552				
MULTICHOICE	0602							
MULTISTAR	0496							
MULTITEC	0586	0587						
MURATTO	0437	0489						

## N

NAVEX	0444							
NEC	0509	0510						
NEUHAUS	0462	0479	0432					
NEXTWAVE	0414	0585						
NIKKO	0419							
NOKIA	0530	0564	0425	0429	0508	0548	0563	0531
	0454	0487	0604					
NOMEX	0622							
NORDMENDE	0549	0472	0508	0603	0405	0409		
NOVIS	0444							

## O

OAK	0424							
OCEANIC	0461	0468						
OCTAGON	0405	0407	0456					
OKANO	0419	0491	0496					
OPTEX	0462	0459	0656					
OPTUS	0602							
ORBIT	0435							
ORBITECH	0405							
ORIGO	0468							
OSAT	0407							
OTTO VERSAND	0439							

## P

PACE	0584	0555	0439	0559	0527			
	0508	0410	0617					
PACIFIC	0461							
PALCOM	0479	0431	0477					
PALLADIUM	0483	0419						
PALTEC	0431							
PANASONIC	0584	0508	0542					
PANDA	0508	0410						
PANSAT	0490							
PANTECH	0591							
PBI	1138							
PHILIPS	0552	0436	0483	0493	0495	0508	0543	0434
	0569	0574	0605	0618	0455	0561	0550	0456
	0515	0604						
PHOENIX	0456							

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

PHONOTREND	0408	0462	0491	0652				
PINNACLE	0654							
PIONEER	0569							
POLSAT	0603							
POLYTRON	0459							
PREDKI	0444							
PREMIER	0569							
PREMIERE	0564	0462	0569	0542	0442	0604		
PREMIUM X	1134							
PRIESNER	0445	0419						
PRO2	0412	0413	0423	0428	0442	0466	0478	0484
	0493	0504	0511	0514	0535	0546	0566	0583
	0586	0587	0618	0619	0644	0650	0652	0653
	1130	1138	1137					
PROFI	0503							
PROMAX	0508							
PROSAT	0408	0562						
PROTEK	0461							
PROVISION	0409							
<b>Q</b>								
QUADRAL	0408	0428						
QUELLE	0439	0417						
QUIERO	0603							
<b>R</b>								
RADIOLA	0552							
RADIX	0630	0438	0632					
RAINBOW	0407							
REDIFFUSION	0510							
REDPOINT	0432							
REDSTAR	0428							
RFT	0408	0552						
RUEFACH	0503							
<b>S</b>								
SAB	1137	1144	1145	1146	1147			
SABA	0472	0508	0543	0556	0562	0565	0571	0572
	0573	0574	0575	0409	0468			
SABRE	0508							
SAGEM	0570	0604	0599	0603	0648			
SAKURA	0456							
SALORA	0429	0527	0509	0520				
SAMSUNG	0426	0405						
SAT	0415	0435	0437					
SATCOM	0640	0504	0523					
SATEC	0508							
SATPARTNER	0444	0405	0407	0409	0489	0491		
SCHAUB LORENZ	1147	1162						

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

SCHNEIDER	0428	0455	0511	0583	0586	0587	0618	
SCHWAIGER	0411	0412	0413	0427	0430	0433	0440	0504
	0508	0516	0566	0573	0575	0576	0577	0582
	0514	0583	0585	0587	0598	0616	0630	0631
	0633	0635	1132	1133	1147	1152	1173	0459
SEEMANN	0438	0419	0432					
SEG	0428	0444	0504	0541	0631	0634	0405	
SELECO	0462							
SIEMENS	0439	1157						
SILVA	0489							
SKARDIN	0432	0586	0546	1160				
SKY	0584	1151						
SKY DIGITAL	0584	0555						
SKY+	0555							
SKYMASTER	0408	0504	0506	0546	0547	0586	0587	0588
	0589	0590	0591	0592	0621	1140	1138	1159
	1161	1160	1162	1167				
SKYMAX	0552							
SKYPEX	1156							
SKYVISION	0462							
SM ELECTRONIC	0408	0412	0504	0506	0546	0547	0586	0587
	0588	0589	0591	0621	1140	1138	0592	1159
	1161	1160	1162	1167				
SONY	0584	0569	0418	0446				
SR	0472	0419	0502					
STAR TRAK	0405							
STARLAND	0586							
STARRING	0444							
STRONG	0562	0428	0602	0545	0454	0489	0405	0407
SUMIDA	0419							
SUNSTAR	0527	0419	0502					
<b>T</b>								
TANDBERG	0603							
TANDY	0407							
TANTEC	0508	0479	0477					
TARGA	1195							
TATUNG	0460							
TCM	0412	0413	0423	0428	0442	0493	0504	0511
	0514	0546	0566	0583	0586	0587	0618	0619
TECHNIHALL	0416							
TECHNISAT	0438	0479	0569	0623	0528	0529		
TECHNOMATE	0441	1142						
TECO	0419	0502						
TELASAT	0640							
TELEFUNKEN	0560	0508	0565	0566	0567	0574	0405	
TELEKA	0438	0640	0407	0419				
TELEMASTER	0409							
TELESAT	0504							

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

TELESTAR	0479	0569						
TELEVES	0508	0610	0611					
TELEWIRE	0462							
TEVION	0412	0413	0423	0428	0442	0466	0478	0484
	0493	0504	0511	0514	0535	0546	0566	0583
	0586	0587	0618	0619	0644	0650	0652	
0653	1130	1140	1138	1137				
THOMSON	0472	0601	0570	0574	0492	0508	0560	0568
	0569	0603	0427	1156				
THORENS	0461							
THORN	0508	0410	0473					
TIOKO	0459							
TONBURY	0445	1159						
TONNA	0508	0462						
TOPFIELD	0497	0505	0506					
TPS	0570							
TPS PLATINUM	1178							
TRIAD	0435	0437	0533	0489				
TRIASAT	0480							
TRIAx	0439	0479	0565	0609	0619			
TWINNER	0610	0611						
<b>U</b>								
UNIDEN	0534							
UNISAT	0419	0456						
UNITOR	0444	0424						
UNIVERSUM	0439	0483	1156	0475	0487			
<b>V</b>								
VARIOSTAT	0439							
VECTOR	0468							
VENTANA	0552							
VIA DIGITAL	0568							
VIA SAT	0568							
VISIOSAT	0594	0444	0462	0586	0593			
	0595	0596	0597					
VIVANCO	0536	0624						
VORTEC	0405							
V-TECH	0437	0435	0515	0537				
<b>W</b>								
WEVASAT	0508							
WEWA	0508							
WINERSAT	0444							
WISI	0435	0437	0438	0439	0508	0533	0538	0539
	0540	0597						
	0625	0626	0627	0628	0629			
WITTENBERG	0415							
WOORISAT	0409							
WYSI	1156							

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Model Number: 20043



## Z

ZEHNDER	0428 0496	0437	0635	0541	0631	0632	0409	0424
ZODIAC	0407							

## DVD-Rekorder

### A

APEX	0911							
ARENA	0923							
ASPIRE	0952							

### B

BLUE NOVA INTERNATIONAL				1051				
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### C

CENTRIOS	0951							
CMI	0923							
COBY	1051							
CYBERCOM	0923							
CYBERHOME	0912							
CYBERMAXX	0895	0905	0906	0923	0959	1071	1117	
CYTRON	0895	0905	0906	0923	0959	1071	1117	

### D

DENVER	1051							
DUAL	0923							

### E

ELTAX	1051							
EMERSON	1057							

### G

GO-VIDEO	0383	1059	1061					
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### H

HB	1089							
HITACHI	0387							

### I

ILO	0959							
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### J

JVC	1058	1072						
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### K

KENDO	0923							
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### L

LG	0907							
LIFE	1117							

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

LIFETEC	0895	0905	0906	0923	0959	1071	1117
LITEON	1056	1059	0959				
LUMATRON	1051						

## M

MAGNAVOX	0979	0980					
MEDION	0895	0905	0906	0923	0959	1071	1117
MICROMAXX	0895	0905	0906	0923	0959	1071	1117
MICROSTAR	0895	0905	0906	0923	0959	1071	1117
MUSTEK	0383						

## O

OCEANIC	1089						
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## P

PACKARD BELL	0940	1052					
PANASONIC	0403						
PHILIPS	0979	0980	1080	1128			
PHOCUS	1063						
PIONEER	0977	1084					
PRO2	0895	0905	0906	0923	0959	1071	
PROVISION	1051						

## R

RTL	0923						
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## S

SAMPO	1051						
SAMSUNG	1050						
SANYO	1060						
SCHAUB LORENZ	1089						
SHARP	1055						
SONY	0987	0988	0989				

## T

TANGENT	1051						
TARGA	1115	0959	0891	1117	0907	1121	
TCM	0923						
TELEDEVICE	1051						
TEVION	0890	0891	0895	0905	0906	0923	0959
	1071	1117					1065
THOMSON	0360	0359	1078				
TINY	1051						
TOSHIBA	0973	0983	0362	1111			
TRANS-CONTINENTS	1051						

## Y

YAKUMO	0905						
YAMAHA	0979	0980					

## Z

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

ZENITH 0907

## DECODER

### A

AUSTAR 0494

### B

BMB 0636

BT 0554

### C

CABLE AND WIRELESS 0606

CABLECRYPT 0474

CABLETIME 0448 0449 0450

CANAL PLUS 0474

CLYDE CABLEVISION 0452

COMCRYPT 0474

CRYPTOVISION 0458

### E

EURODEC 0603

### F

FILMNET 0474

FILMNET CABLECRYPT 0474

FILMNET COMCRYPT 0474

FOXTEL 0602

### G

GEC 0452

GI 0494 0554

### I

IMPULSE 0554

### J

JERROLD 0554 0494

### K

KABELVISION 0554

### L

LYONNAISE 1183

### M

MARMITEK 0636

MELITA 0554

MNET 0602 0474

MOTOROLA 0494

MOVIE TIME 0551

MULTICHOICE 0474 0602

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

**N**

NOKIA	0564			
NOOS	1143	1158	1175	1183
NTL	0606			
NUMERICABLE	0603			

**O**

OPTUS	0494			
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**P**

PACE	0606			
PHILIPS	0487			
PIONEER	0518	0521		
PVP	0554			

**S**

SAGEM	0604			
SAMSUNG	1148			
SCIENTIFIC ATLANTA	0524	0525		
STS	0551			

**T**

TELE+1	0474			
TELEPIU	0474			
TELEWEST	0606	0554		
THOMSON	1189			

**U**

UNITED	0554			
UPC	1143	1175	1184	

**V**

VISIONETICS	1185			
VISIOSAT	0487			

**LD****D**

DENON	0252	0318		
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**G**

GRUNDIG	0318			
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**M**

MITSUBISHI	0318			
N				
NAD	0318			

**P**

PIONEER	0318			
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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

## T

TELEFUNKEN 0318  
THORN 0322

## HDD-DVR

HDD-Digital-Video-Rekorder (Hard Disk Drive, DVR, PVR, etc)

## A

AMSTRAD 0555  
ARCON 1144

## B

BSKYB 0555

## C

CANAL SATELLITE 0599  
CANAL+ 0599  
CONRAD 1156  
CYBERCOM 0412 0423 0514  
CYBERMAXX 0905 0412 0423 0514 0644 0653 1130 0959  
1071 1117  
CYTRON 0905 0412 0423 0514 0644 0653 1130 0959  
1071 1117

## D

DIGIFUSION 0647  
DMT 0412  
DREAMBOX 0658  
DUAL 0412 0423 0514

## E

ECHOSTAR 0659  
EUROSKY 1156

## F

FORCE 0553  
FORTEC STAR 0470  
FREEBOX 1182

## G

GLOBO 1156

## H

HIRSCHMANN 1156  
HUMAX 0651  
HYUNDAI 0486

## I

ILO 0959

## J

Helpline No. UK/ North Ireland 0871 37 61 020 Rep. Ireland 1-800-992 508 135

Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

JVC	1072								
<b>L</b>									
LASAT	1156	1157							
LIFE	1117								
LIFESAT	0412	0423	0514						
LIFETEC	0905	0412	0423	0514	0644	0653	1130	0959	
	1071	1117							
LITEON	0959								
LORENTZEN	1156								
<b>M</b>									
MARMITEK OCTOPUS	0655								
MEDION	0905	0412	0423	0514	0644	0653	1130	0959	
	1071	1139							
	1115	1181	1117						
MICROMAXX	0905	0412	0423	0514	0644	0653	1130	0959	
	1071	1139							
	1117								
MICROSTAR	0905	0412	0423	0514	0644	0653	1130	0959	
	1071	1117							
MORETV	0644	1130	1181						
<b>N</b>									
NEUF TELECOM	1196								
NEUF TV	1196								
<b>P</b>									
PACE	0555	0453							
PACKARD BELL	1052								
PANASONIC	0403								
PHILIPS	0242	1128							
PHOCUS	1063								
PINNACLE	0654								
PIONEER	0977								
PRO2	0905	0412	0423	0514	0644	0653	1130	0959	
	1071								
PROCASTER	0905								
<b>S</b>									
SAGEM	0599	1143	1158						
SCHWAIGER	0412	0514	1132	1152					
SIEMENS	1157								
SKARDIN	1160								
SKY	1151								
SKY DIGITAL	0555								
SKY+	0555								
SKYMASTER	0506	1165	1159	1160					
SKYPEX	1156								
SM ELECTRONIC	0412	0506	1165	1159	1160				

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

SONY 0987 0988 0989

## T

TARGA 1115 1117 1195

TCM 0412 0423 0514

TEVION 0890 0905 0412 0423 0514 0644 0653 1130  
0959 1065 1071 1117

THOMSON 0532 0242 0326 1156 1078

TIVO 0242

TONBURY 1159

TOPFIELD 0506

TOSHIBA 0983 1111

## U

UNIVERSUM 1156

## W

WYSI 1156

## Y

YAKUMO 0905

## TV/VCR (COMBOS)

### A

AIWA 0248 0291

ALBA 0245 0248

### B

BAIRD 0245

BASIC LINE 0245

BESTAR 0245

BLACK PANTHER LINE 0245

BUSH 0245 0248

### C

COMBITECH 0248

CONDOR 0245

CROWN 0245

CYBERCOM 0248 0291

CYBERMAXX 0248 0291

CYTRON 0248 0291

### D

DAEWOO 0245

DAYTRON 0245

DUAL 0248 0291

### E

ESC 0245

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

**G**

GENERAL TECHNIC	0248	
GOLDSTAR	0261	
GOODMANS	0245	0283
GRANDIN	0245	

**H**

HINARI	0248	
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**I**

INNO HIT	0245	
INNOVATION	0248	0291
ITV	0245	

**K**

KENDO	0245	
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**L**

LENCO	0245	
LG	0261	
LIFE	0291	
LIFETEC	0248	0291
LUMATRON	0245	

**M**

MAGNUM	0291	
MATSUI	0248	
MEDION	0248	0291
MICROMAXX	0248	0291
MICROSTAR	0248	0291

**O**

ORION	0248	0283
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**P**

PORTLAND	0245	
PRO2	0248	0291
PROSONIC	0245	

**R**

ROADSTAR	0245	
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**S**

SABA	0245	
SAISHO	0248	
SAMSUNG	0312	
SAVILLE	0248	
SCHNEIDER	0245	0264
SONOKO	0245	
STANDARD	0245	



**T**

TCM	0248	0291
TEVION	0248	0291
THOMSON	0245	

**U**

UNITED QUICK STAR	0245	
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**V**

VIDEON	0248	
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**TV/DVD (COMBOS)**

TV-DVD combos operate with either a single DVD code or some require both TV & DVD codes.

**A**

AUDIOSONIC	1062 & 0090		
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**B**

BEKO	1064		
BROKSONIC	0920		

**C**

CYBERCOM	0343 & 0228	0924 & 0210	0933 & 0228
CYBERMAXX & 0228	0894 0343 & 0228	0924 & 0210	0933
CYTRON & 0228	0894 0343 & 0228	0924 & 0210	0933

**D**

DUAL	0343 & 0228	0924 & 0210	0933 & 0228
DURABRAND	0933 & 0228 1086 & 1008	1085 & 1006 1087 & 1008	1085 & 1007 1088 & 1009

**H**

H & B	0343 & 0228		
HB	1089 & 1011		

**G**

GERICOM	1064		
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**I**

INTERTRONIC	0894		
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**L**

LIFETEC & 0228	0894 0343 & 0228	0924 & 0210	0933
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**M**

MEDION & 0228	0894 0343 & 0228	0924 & 0210	0933
MEMOREX	0920		

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

MICROMAXX & 0228	0894	0343 & 0228	0924 & 0210	0933
MICROSTAR & 0228	0894	0343 & 0228	0924 & 0210	0933
MT LOGIC	1062 & 0090			
<b>O</b>				
OCEANIC	1089 & 1011			
ORION	0920			
<b>P</b>				
PHILIPS	0339 & 0181			
PHOCUS	1064			
PRO2 & 0228	0894	0343 & 0228	0924 & 0210	0933
<b>S</b>				
SANSUI	0920			
SCHAUB LORENZ	1089 & 1011			
<b>T</b>				
TCM	0343 & 0228 1119		0924 & 0210	0933 & 0228
TEVION & 0228	0894 1064	0343 & 0228	0924 & 0210	0933
TOSHIBA	0920			

## DVD/VCR (COMBOS)

DVD-VCR combos operate with either a single DVD code or some require both DVD & VCR codes.

### A

APEX 0949

### B

BROKSONIC 0920 0967

### C

CINEVISION 0375 & 0256

CYBERCOM 0338 0375 & 0256

CYBERMAXX 0338 0896 0906 0375 & 0256

CYTRON 0338 0896 0906 0375 & 0256

### D

DAEWOO 0971

DUAL 0338 0375 & 0256

### E

EMERSON 0339 & 0231 0375 & 0256

### F

FUNAI 0339 & 0231

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

## G

GO-VIDEO 0338 0367 0971  
GOLDSTAR 0375 & 0256

## H

HITACHI 0387 & 0231

## J

JVC 0400

## L

LG 0907 0375 & 0256  
LIFETEC 0338 0896 0906 375 & 0256

## M

MAGNAVOX 0914 & 0285  
MEDION 0338 0896 0906 0375 & 0256  
MICROMAXX 0338 0896 0906 0375 & 0256  
MICROSTAR 0338 0896 0906 0375 & 0256

## P

PANASONIC 0970  
PHILIPS 0969 & 0285  
PIONEER 1084  
POLAROID 0949  
PRO2 0338 0896 0906 0375 & 0256

## S

SAMSUNG 0338 0963SANSUI 0920  
SANYO 0378 & 0258  
SILVERCREST 0256  
SONY 0402  
SYLVANIA 0339 & 0231

## T

TARGA 0 375 & 0256 0907 0375 & 1041  
TCM 0338  
0375 & 0256  
TEVION 0338  
0896  
0906  
0375 & 0256  
TOSHIBA 0362

## Z

ZENITH 0375 & 0256

## DVB-T

DVB-T Terrestrial Digital Television (DTV, Freeview, iDTV, etc)

Helpline No. UK/ North Ireland 0871 37 61 020 Rep. Ireland 1-800-992 508 **141**

Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

**A**

ALBA 0451 0646

**B**

BUSH 0451 0032

**C**

CANAL + 1177

CYBERMAXX 0645 0650

CYTRON 0645 0650

**D**

DIGENIUS 0645

DIGIFUSION 0647

DIGIO2 1150

DMT 0412

DURABRAND 0526

**E**

ECHOSTAR 0657

**F**

FREEBOX 1182

FREEVIEW	0447	0451	0453	0457	0482	0512	0513	0519
	0526	0532	0600	0646	0647	0648	0649	0651

**G**

GERICOM 0443

GOODMANS 0451 0526

GOODWAY 1163 1164

GRUNDIG 0512 1172

**H**

HAUPPAUGE 0482

HB 1011

HITACHI 0526

HUMAX 0651

**J**

JVC 0526

LABGEAR 0513

LIDCOM 0451

LIFETEC 0645 0650

**M**

MARMITEK OCTOPUS 0655

MATSUI 0649 0526 0451

MEDION 0645 0650

MICO 1135

MICROMAXX 0645 0650

MICROSTAR 0645 0650

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Model Number: 20043

## **N**

NOKIA	0519	0531
NOOS	1183	

## **O**

OCEANIC	1011		
OGGLE	1136		
ON-DIGITAL	0527	0531	0620
OPTEX	0656		

## **P**

PACE	0453	0527	
PACIFIC	0526		
PANASONIC	0072	0403	
PHILIPS	0600		
PIONEER	0457	0620	
PREMIERE	0600	0519	
PRO2	0645	0650	

## **R**

REBOX	0476		
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## **S**

SAGEM	0648	1143			
SCHAUB LORENZ	1011				
SCHWAIGER	0630				
SHARP	0059				
SKARDIN	0656				
SKYMASTER	0656	1165			
SM ELECTRONIC	0412	0656	1165	1163	1164
SONY	0447				

## **T**

TCM	1017	1119	
TEVION	0645	0650	
THOMSON	0427	0532	
TOP-UP TV	0527	0531	0657

## **Y**

YUNG FU	1166		
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## **Auxiliary Set-Top Boxes**

### **Web & Computer TV**

BUSH	0039		
CYBERLINK	1101		
GERICOM	0443		
HAUPPAUGE	0482	1198	

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

NOW TV	1186
PACKARD BELL	1101
PANASONIC	0542
PINNACLE	1199
PREMIERE	0542
THOMSON	0603

## Media Receivers

SONY NETWORK MEDIA RECEIVER 0446

## Scart Switch Boxes

COUNTRYMAN	1168
FUNK	1170
MARMITEK	0641
SKARDIN	1169
VIVANCO	0684

## Digital Set Top Boxes

ECHOSTAR	0657		
TEVION	0650	0645	0423
YUNG FU	1166		

## Misc. Set Top Boxes

PARDY LIGHT BOX 1171

## HTIB (Home Cinema Systems, DVD & AUDIO)

Home Cinema Systems operate with either a single DVD code or some require both DVD & AUDIO codes.

### A

AIWA	0377
AMW	1054

### C

CENTRUM	0927					
COBY	0948					
CRITERION	0344 & 0775					
CURTIS	0948					
CYBERCOM	0334	0372	0344 & 0775			
CYBERMAXX	0334	0372	0344 & 0775	1069	1066	1118
CYTRON	0334	0372	0344 & 0775	1069	1066	1118

### D

DUAL	0334	0372	0344 & 0775
DURABRAND	0375		

### F

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

FISHER 0378

## **J**

JVC 0662 0964

## **K**

KOSS 0373

## **L**

LENOXX 0931

LG 0972

LIFE 1118

LIFETEC 0334 0372 0344 & 0775 1069 1066 1118

## **M**

MEDION 0334 0372 0344 & 0775 1069 1066 1118

MICROMAXX 0334 0372 0344 & 0775 1069 1066 1118

MICROSTAR 0334 0372 0344 & 0775 1069 1066 1118

## **N**

NORCENT 0948

## **O**

ONKYO 0975

## **P**

PANASONIC 0974

PIONEER 0968 0976

PRO2 0334 0372 0344 & 0775 1069 1066

## **S**

SAMSUNG 0919

SONY 0986

## **T**

TARGA 0972 1041

TCM 0334 0344 & 0775

TEVION 0334 0372 0892 0917 0918 0344 & 0775  
1069 1066 1118

# **AUX**

## **Audio Amplifiers/Tuners/Receivers**

CENTRUM 0692

CRITERION 0775

CYBERCOM 0841 0775 0776

CYBERMAXX 0841 0775 0776

CYTRON 0841 0775 0776

DENON 0779 0781

DUAL 0841 0775 0797

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

ELTA	0667	0668					
GRUNDIG	0697	0698	0727				
HARMON/KARDON	0682						
KENWOOD	0761						
LIFETEC	0841	0775	0776				
LINN	0857						
MARANTZ	0727						
MEDION	0841	0775	0776				
MICROMAXX	0841	0775	0776				
MICROSTAR	0841	0775	0776				
NAD	0735	0736	0737	0738	0799	0800	
NUVO	0862	0863	0864	0865			
ONKYO	0785	0792	0793	0826			
PHILIPS	0846	0727					
PRO2	0841	0775	0776				
SANSUI	0727						
SCHNEIDER	0791						
SHERWOOD	0782						
SONY	0739	0740	0755	0757	0758	0759	0760
TCM	0841	0775	0776	0806			
TEAC	0794	0796					
TECHNICS	0764	0777	0788				
TEVION	0775	0776	0815	0817	0841		
THEORIE & ANWENDING			0805				
THOMSON	0842	0766					
XANTECH	0867						
YAMAHA 0	724	0752	0770	0771	0772		

## Audio Tape Players

AIWA	0790						
DENON	0780						
GRUNDIG	0729	0698					
HARMON KARDON	0681						
KENWOOD	0761						
MAGNAVOX	0729						
MARANTZ	0729						
NAD	0799						
ONKYO	0784						
PHILIPS	0729						
SANSUI	0729						
SHERWOOD	0783						
SONY	0754	0755	0756				
TEAC	0794						
TECHNICS	0764	0777	0786				
THOMSON	0842						
YAMAHA	0724	0772					

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043



## MINI Systems

AIWA	0773	0774						
CYBERCOM	0852	0858	0704	0745	0808	0810	0820	0819
CYBERMAXX	0852	0858	0704	0745	0808	0810	0811	0812
	0820	0819						
CYTRON	0852	0858	0704	0745	0808	0810	0811	0812
	0820	0819						
DUAL	0852	0858	0704	0745	0797	0820	0819	
E-BENCH	0811							
ELTA	0693	0745						
GRUNDIG	0707							
INTERTRONIC	0811							
LIFETEC	0852	0858	0704	0745	0808	0810	0811	0812
	0820	0819						
MEDION	0852	0858	0704	0745	0808	0810	0811	0812
	0820	0819						
MICROMAXX	0852	0858	0704	0745	0808	0810	0811	0812
	0820	0819						
MICROSTAR	0852	0858	0704	0745	0808	0810	0811	0812
	0820	0819						
PIONEER	0753							
PRO2	0852	0858	0704	0745	0808	0810	0811	0812
	0820	0819						
SAMSUNG	0768							
SHARP	0789							
SILVERCREST	0811	0829	0868					
SONY	0741							
TCM	0852	0858	0704	0745	0808	0810	0820	0819
	0694	0823		0824	0825			
TEVION	0852	0858	0704	0745	0808	0810	0811	0812
	0820	0819						
	0821	0822						
WELLTECH	0852	0810	0820	0819	0694	0803	0811	0827

## Misc.

APPLE IPOD	0885
AUDIO COMBI	0844
CAR RADIO	0861
CDR 0847	0675
DBS	0845
iPOD	0884
SWITCH BOX	0684
VIDEO CD	0840

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Web Support [www.medion.co.uk](http://www.medion.co.uk)

Model Number: 20043

# Code Searching by Brand Name

## TV

- 1 MEDION / LIFETEC / MICROMAXX / MICROSTAR / TEVION / VIDEON / TCM / GENERAL TECHNIC / INNOVATION/MAGNUM
- 2 PHILIPS / ERRES / PYE / PHILCO / RADIOLA
- 3 SONY / AKAI / PANASONIC / SHARP / TOSHIBA / JVC / DAEWOO
- 4 THOMSON / BRANDT
- 5 TELEFUNKEN / SABA / NORMENDE / FERGUSON / BAIRD
- 6 GRUNDIG / BLAUPUNKT
- 7 NOKIA / FINLUX / ITT

## VCR

- 1 MEDION / LIFETEC / MICROMAXX / MICROSTAR / TEVION / TCM / GENERAL TECHNIC / INNOVATION
- 2 PHILIPS / PHILCO
- 3 SONY / AKAI / PANASONIC / SHARP / TOSHIBA / JVC / DAEWOO
- 4 THOMSON / BRANDT
- 5 TELEFUNKEN / SABA / CORMENDE / FERGUSON
- 6 GRUNDIG / BLAUPUNKT
- 7 NOKIA / FINLUX / ITT

## SAT

- 1 MEDION / LIFETEC / MICROMAXX / MICROSTAR / INNOVAATION / GALAXIS
- 2 PHILIPS / PHILCO
- 3 PACE / ECHOSTAR
- 4 THOMSON / UNIVERSUM / BRANDT
- 5 TELEFUNKEN / SABA / NORMENDE / FERGUSON
- 6 GRUNDIG
- 7 NOKIA / FINLUX / ITT / HIRSCHMANN