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SET UP

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About Your KAMELEON 4

Your ONE FOR ALL KAMELEON 4 package contains:

- Your KAMELEON 4 universal remote control.
- Your KAMELEON 4 manual.

Your KAMELEON 4 manual is divided into two parts:

- "Set-Up Instructions".
- "Device Codes".

You will need this manual to set up your new KAMELEON 4 so please be sure to keep it.

Easy to use unique "EL" display

By choosing the ONE FOR ALL KAMELEON 4 universal remote control you have opted for easy use. Your KAMELEON 4 features a unique, user-friendly backlit display, which ensures you have easy access to all the keys you need, whilst hiding those you don't. Made of the strictest quality, it will provide long-term satisfaction. When replacing batteries, you will need to first press any key before the screen will light up. From then on, the display will automatically illuminate whenever the remote is picked up or moved. It is also possible to change the activation-mode into activation by keypress. To set the "EL" display to activation by keypress, see page 3, section: "EL" screen activation setting.

Controls up to 4 devices

Your KAMELEON 4 is designed to let you use one remote to operate four devices (a television, satellite receiver / cable box, video recorder, DVD player) designed to be operated by an infrared signal. Your KAMELEON 4 comes with 2 IR (infrared) wide range transmitters for maximum range and is High Frequency capable up to 450 kHz.

Learning feature

The KAMELEON 4 comes equipped with the unique "learning feature", which means that you can copy almost any function (max. ± 30) from your original (working) remote control onto your new KAMELEON 4 (See "Learning Feature" on page 11). This comes in handy, when after having setup your KAMELEON 4 you may find some functions from your original remote missing on your KAMELEON 4 key pad.

Macros (sequence of commands)

Your KAMELEON 4 comes with an easy-to-use Macro feature, allowing you to send several commands with the press of a single key (for example turning a few devices on or off). You can use the MACRO key for this feature. Once you programmed a macro on the MACRO key, the sequence will be performed in every mode.

Batteries

Your KAMELEON 4 comes with 4 AAA/LR03 alkaline batteries.

1. Push the battery door upwards and lift it up to remove it.
2. Match the batteries to the (+) and (-) marks inside the battery case, then insert the batteries.
3. Replace the battery cover by pushing downwards and allowing it to click back into position.

-
- *After re-installing the batteries, the entire "EL" display will be lit for a duration of 6 seconds upon the first keypress after which it will default to the TV mode.*
-

The Keypad

1.

IR (infra-red) Indicator

The IR Indicator animates when IR is being "sent" or "received". The *KAMELEON 4* animated IR Indicator will show "outgoing IR" whenever a functional key is pressed. When using the "Learning Procedure" the animated IR indicator will show "incoming IR". The IR Indicator will give feedback when keys are pressed both during normal use and in programming mode (the bottom part of the IR indicator will blink).

2.



Device keys

The TV, VCR, SAT/CBL and DVD keys select the device to be controlled. For example pressing the TV key allows the remote to control the functions of your Television, after pressing VCR you can operate your Video Recorder, after pressing the SAT/CBL key you can operate your Satellite Receiver or Cable Converter etc. (see page 8 for more details). After pressing a device (mode) key on your *KAMELEON 4* the applicable device icon will light up, to show the currently activated mode. Pressing the device key will allow you to return to the main screen (TV, VCR, SAT/CBL modes).

3. (z z)

POWER (in shifted mode; Sleep timer)

The POWER key controls the same function as on your original remote. In shifted mode (accessed by pressing MAGIC shortly and releasing it) the POWER key becomes the Sleep timer function (see page 17).

4.

"EL" panel with animated screens

This product features an "EL" panel (Electro Luminescence technology) which is motion activated. In order to save battery life, the "EL" screen will stay illuminated for 10 seconds during normal use. It is also possible to change the motion activation-mode into activation by keypress. To change the activation-mode, see below section: "EL" screen activation setting. It is also possible to increase or decrease the brightness on the *KAMELEON 4* "EL" panel (see page 5). One of the key features of the *KAMELEON 4* is the "EL" display, which changes to suit the device you are controlling. The overview on page 4 will show you all the possible screens and the functions that you will obtain.

"EL" Screen activation setting

The *KAMELEON 4* features an "EL" panel which is motion activated or keypress activated depending on the current setting.

To change the activation setting:

1. Press and hold the **MAGIC** key until the **rabbit** comes out of the hat.

2. Press **9 8 9**.

-> If the bottom part of the animated IR Indicator blinks **twice** the "EL" panel will be **motion activated**.

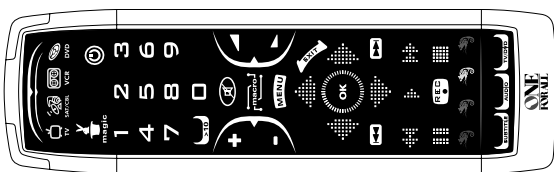
-> If the bottom part of the animated IR Indicator blinks **four times** the "EL" panel will be **activated by keypress**.

Simply perform these steps to lock the *KAMELEON 4* to the activation setting that you prefer.



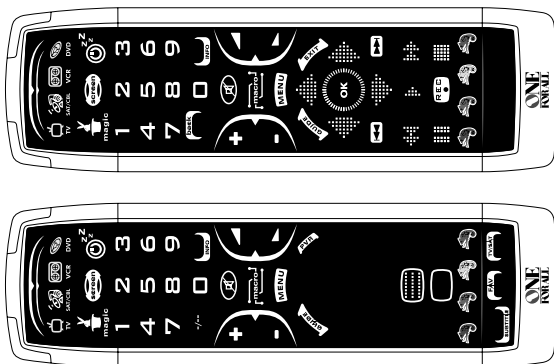
The Keypad

DVD



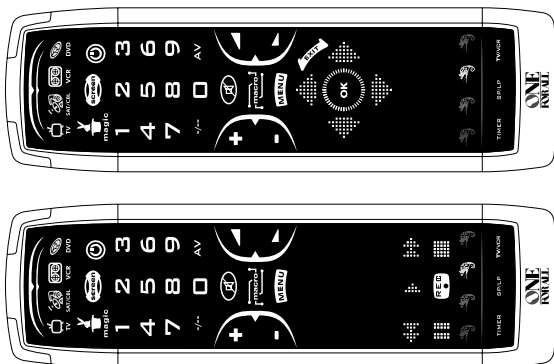
SAT / CBL

Menu/PVR



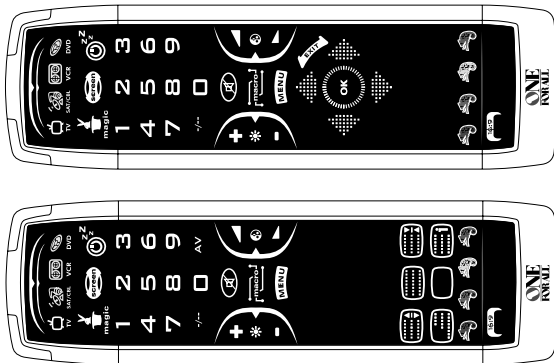
VCR

Menu



TV

Menu



The Keypad

"EL" Screen brightness adjustment

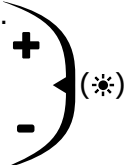
To increase or decrease the brightness of the KAMELEON 4 "EL" screen.

1. Press and hold the **MAGIC** key until the rabbit comes out of the hat.
2. Press **9 7 4**.
3. -> To increase the brightness of the "EL" screen press and hold **CH+**.
-> To decrease the brightness of the "EL" screen press and hold **CH-**.
4. Press **MAGIC** to store the brightness setting.

- Increasing the brightness of the KAMELEON "EL" panel can decrease the battery life. Battery life varies from 3 - 12 months (depending on brightness setting and usage).

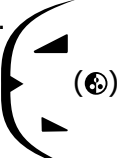
5.  **MAGIC (in "shifted" or "programming" mode)**
The MAGIC key is used to set up your KAMELEON 4 and to access special functions. If you press this key shortly, the screen will go into "shifted" mode (for 10 seconds). If you press this key longer (about 3 seconds), the KAMELEON 4 will go into "programming" mode (during "programming" mode you will see the rabbit icon above the hat).
6.  **SCREEN**
The SCREEN key gives you the possibility to move through the different screens (if applicable) within a certain mode during normal use and programming mode. This only applies in TV, VCR and SAT/CBL modes.
7.

1	2	3
4	5	6
7	8	9

Number keys
The number (1 – 9, 0) keys provide functions just like your original remote.
8.  **Back / -/-- / >10**
If your original remote uses one/two digit input switching (-/-- symbol), this function can be obtained by pressing the -/-- key. In SAT/CBL menu mode you may use the "back" key to go the previous menu screen on your SAT/CBL device. In DVD mode you will obtain the >10 function.
9.  **Info / AV**
In SAT/CBL mode you can select the "info" function. The AV key operates the same function it did on your original remote control. If your original remote uses a 20 key, this function can be found by pressing the AV key.
10.  **CH +/- (in shifted mode; brightness +/-)**
These keys operate just as those on your original remote. In shifted TV mode (accessed by pressing MAGIC shortly and releasing it) these keys may provide you the brightness +/- function.



The Keypad

11.  **VOL +/- (in shifted mode; colour +/-)**
The volume keys operate just as those on your original remote. In shifted TV mode (accessed by pressing MAGIC shortly and releasing it) these keys may provide you the colour +/- function.
12.  **MUTE**
The Mute key operates the same function it did on your original remote control.
13.  **MACRO key**
This is a spare key that provides you the possibility to place a macro on (sequence of commands). The macro can be accessed in any mode.
14.  **MENU**
Pressing this key will allow you to operate the Menu and in TV, VCR and SAT/CBL mode will change the screen to the menu mode. The MENU key operates the same function it did on your original remote control.
15.  **GUIDE**
In SAT/CBL mode the "GUIDE" key will change the screen into SAT/CBL-menu mode and give you the "Guide" function, if available on your original remote.
16.  **PVR / EXIT**
In SAT/CBL mode the "PVR" key will change the screen into SAT/CBL PVR (Personal Video Recorder), which will bring up the transport functions. If your digital satellite receiver or cable converter has a built in PVR (recording function), you can operate it with these keys. The EXIT key will operate the same as on your original remote. To return to the main screen (TV, VCR, SAT/CBL modes) press the device key or use the SCREEN key.
17.  **Directional keys**
If available on your original remote control, these keys will allow you to navigate through the menu.
On some TV's you may have to press CH+/- and VOL+/- keys OR the color keys (red, green, yellow, blue) to navigate through the menu, depending on your model of TV.
18.  **OK**
In menu mode this key will confirm your choice. On some devices you can confirm your menu option simply by pressing MENU.
19.  **SKIP (+/-)**
These keys operate just as those on your original remote. In SAT/CBL ("PVR") and/or DVD mode they will function as SKIP (TRACK) +/- keys.
20.  **Transport keys (PLAY, STOP etc.)**
When in VCR, SAT/CBL ("PVR") or DVD mode; these keys operate the transport functions (PLAY, FF, REW etc.) of your device. To prevent accidental recording, the RECORD key must be pressed **twice** to start recording.



The Keypad

21.

Teletext Keys

These keys are used to operate the main teletext functions. Of course, your Television must have teletext capability. For a more detailed explanation of teletext and fasttext, please refer to the manual of your television. Remember, different televisions control teletext and fasttext functions in different ways. Not all of the teletext functions may be available on your particular model.



EXPAND: Shows the top half of the teletext page in larger letters. By pressing again, you can see the bottom half of the teletext page enlarged. To return to regular teletext viewing, press the EXPAND key again, or press the TEXT ON key, depending on your television.



TEXT ON: In TV mode: once in text mode, pressing this key may switch to MIX or TURN OFF text, depending on your television. This function is also available in SAT/CBL mode.



HOLD/STOP: Stops changing pages.



MIX: Shows both text and TV picture.



TEXT OFF: In TV mode: switches the television back to regular viewing mode. On some televisions this may be done by pressing the "TEXT ON" key several times. This function is also available in SAT/CBL mode.



TEXT INDEX: This key will give you access to the index function within the text mode.

22.    

Red / Green / Yellow / Blue

When accessing the text mode, the colour keys marked red, green, yellow and blue, allow you to access the fasttext functions of your television. If on your original remote control these keys are used for Menu navigation, the *KAMELEON 4* Fasttext keys may operate the same.

23.



16:9 / TIMER / SUBTITLE

In TV mode you will obtain the 16:9 (screen format) function. In VCR mode you will obtain the TIMER RECORD or TIMER ON/OFF function. In SAT/CBL and DVD mode you will obtain the SUBTITLE function.

24.



FAV / SP/LP / AUDIO

In SAT/CBL mode you will obtain the FAV (favourite) function. In VCR mode you will obtain the SP/LP (tape speed) function. In DVD mode you will obtain the "Audio" function.

25.



TV/SAT / TV/VCR / TV/DVD

In SAT/CBL mode you will obtain the TV/SAT function. In VCR mode you will obtain the TV/VCR function. In DVD mode you will obtain the TV/DVD function.

Setting up the **KAMELEON 4**

(How to set up the **KAMELEON 4** to control your devices)

Direct Code Set Up

Example: To set up the KAMELEON 4 for your television:

- 1**



Find your device code in the Codelist (page 22-35).
Codes are listed by device mode and brand name.
The most popular code for each brand is listed first. If your brand is not listed at all in the code section, try the Search Method on page 9.
- 2**

Make sure your television is **switched ON** (not on standby).
- 3**



Press and release the **TV** key on your **KAMELEON 4**.
- 4**



Press and hold down the MAGIC key (for about 3 seconds) until the rabbit comes out of the hat.


- 5**



Enter your **four-digit code** using the number keys. The bottom part of the animated IR Indicator will blink twice.


- 6**

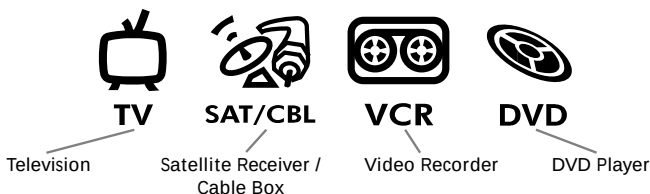


Now, aim your KAMELEON 4 at your television and press **POWER**. If your television switches off, your **KAMELEON 4** should be ready to control your television.
- 7**

Turn your device (television) back on and try all the remote's functions to ensure they are working properly. Most TV's do not switch back on pressing the POWER key, please try pressing a "number" key or the "TV-text off" key to switch your TV back on.
- 8**

If your device does not respond, follow steps 1 through 6 with each code listed for your brand. If none of the codes listed for your brand operate your device, then try the Search Method described on page 9.

- Some codes are quite similar. If your device does not respond or is not functioning properly with one of the codes, try another code listed under your brand.
- If the original remote control from your Video Recorder did not have a POWER key, press PLAY instead of POWER during step 6.
- To set up your other devices, follow the same instructions above, only press the appropriate device key during step 3.
- Remember to press the correct device key before operating your device. Only one device can be assigned to a device key.



To set up a second TV, VCR, SAT/CBL or DVD (See page 14).

Setting up the KAMELEON 4

Search Method

--> If your device does not respond to the KAMELEON 4 after you have tried all the codes listed for your brand.

--> If your brand is not listed at all.

The Search Method allows you to scan through all the codes contained in the memory of the KAMELEON 4.

Example: To search for your TV code:

- 1 Switch ON your Television (not on standby).
- 2  Press and release the **TV** key on your KAMELEON 4.
- 3  **Press and hold down the MAGIC key** (for about 3 seconds) until the rabbit comes out of the hat. 
- 4 **991** Press **9 9 1**, the bottom part of the animated IR Indicator will light up twice. 
- 5  Next, press **POWER**.
- 6  **Point the KAMELEON 4 at your Television. Now press CH+ over and over, until your Television turns off** (every time you press the CH+ key the KAMELEON 4 will send out a POWER signal from the next code contained in the memory). **You may have to press CH+ many times (up to 150 times) so please be patient. Remember to keep pointing the KAMELEON 4 at your Television while pressing this key.** (If you skip past a code, you can go to the previous code(s) by pressing the CH - key.)
- 7  **When your Television switches off**, press the **MAGIC** key to store the Code. The bottom part of the animated IR Indicator will light up twice. Now your KAMELEON 4 should be ready to control your television. 
- 8 Turn your device (television) back on and try all the remote's functions to ensure they are working properly.
- 9 If you cannot control your Television properly, please continue the Search Method, you may be using the wrong Code.

- During step 5, instead of POWER you can also press 0,1, 2, 3, VOL+, PLAY, STOP or MUTE. This will be the function sent for the next key presses of CH+ or CH- in step 6. If for example; during step 5, you press "2" instead of "POWER", the KAMELEON 4 will send the "number 2" signal every time you press CH+ during step 6 (make sure your TV is switched to another channel).
- During step 6, while searching you can sample any of the following keys 0, 1, 2, 3, VOL+, PLAY, STOP, MUTE and thereafter continue the search (CH+ on CH-) with the last function sampled. Pressing CH+ will send the signal from the next code contained in the memory. Pressing CH- will send the signal from the previous code. This can be useful if you missed the code while searching (reversed search).
- To search for your other devices, follow the same instructions above, only press the appropriate device key during step 2.
- If your Video's original remote control does not have a POWER key, press PLAY instead of POWER during step 5.

Code blink out

(To find out which code is currently programmed)

If you have set up your *KAMELEON 4* via the Search Method, you can blink back your code for future reference. Please note that the bottom part of the animated IR Indicator will indicate the 4 digits by animated blink(s).

Example: To blink out your television code:

1.  Press the **TV** key on your *KAMELEON 4*.
 2.  **Press and hold down the MAGIC key until the rabbit comes out of the hat.** 
 3. **990** Press **9 9 0**, the bottom part of the animated IR Indicator will light up twice. 
 4. **1** For the **first** digit of your **four-digit code**, press **1** and count the blinks on the bottom part of the animated IR Indicator. If there are no blinks, the digit is "0". 
 5. **2** For the **second** digit, press **2** and count the animated blinks. If there are no blinks, the digit is "0". 
 6. **3** For the **third** digit, press **3** and count the animated blinks. If there are no blinks, the digit is "0". 
 7. **4** For the **fourth** digit, press **4** and count the animated blinks. If there are no blinks, the digit is "0". 
- Now you have found your four-digit code.**

- To blink back the code for your other devices follow the instructions above, only press the appropriate device key during step 1.

Quick code Reference

Write down the codes for your devices in the boxes below for quick and easy reference.



TV

.....

--	--	--	--



SAT/CBL

.....

--	--	--	--



VCR

.....

--	--	--	--



DVD

.....

--	--	--	--

Learning Feature

(How to copy functions from your original working remote onto the
KAMELEON 4)

The **KAMELEON 4** comes with a complete library of pre-programmed codes. After you have set up the **KAMELEON 4** for your device, you may find that there are one or more keys that you had on the original remote control, which do not have a place on the **KAMELEON 4** keypad.

The **KAMELEON 4** offers a special Learning feature that allows you to copy almost any function from your original remote control onto the keypad of the **KAMELEON 4**.

Before you start:

- Make sure your original remote is working correctly.
- Make sure neither your **KAMELEON 4**, nor your original remote control is pointing at your device.

Learning (direct)

Example: To copy the "mono/stereo" function from your original TV remote control onto the "16:9"-key of your KAMELEON 4.

1. Place the **KAMELEON 4** and your original remote control on a flat surface. Make sure the ends which you normally point at your device are facing each other. Point the original remote to the front left side of the **KAMELEON 4** (see picture below). Keep the remotes at a distance of 2 to 5 cm (0.8 to 2 inches).



2.  **Press and hold down the MAGIC key** (for about 3 seconds) until the rabbit comes out of the hat. 
3. **975** Press **9 7 5**. The bottom part of the animated IR Indicator will blink twice. 
4.  Press the **device key** (Example: **TV** key) on the **KAMELEON 4** remote to select the mode to which you want to copy the learned function.
5.  Press the key (Example: **"16:9"** key) on the **KAMELEON 4** remote where you want to place the learned function. The IR Indicator will show "incoming IR" three times and then the display will switch off.
6.  **Press and hold** the key that you want to copy (Example: **mono/stereo**) on your original remote control. The display switches back on and you will see two blinks to indicate successful learning operation.
7. If you want to copy other functions within the same mode, simply repeat steps 5 and 6 pressing the next key you want to copy by learning. If you want to copy another function in a different mode, simply continue with step 4 followed by steps 5 and 6.
8.  To exit the learning mode, **press and hold down the MAGIC key** (for about 3 seconds) until the bottom part of IR Indicator blinks four times. 



Learning Feature

- As soon as the display switches off in step 5 you need to press the key (in this example: the "mono/stereo" key) on your original remote within 10 seconds. If no key is pressed while in learning mode, the remote will return to user mode after 30 seconds.
 - During learning, keys such as (TV) menu, (VCR) menu etc. will not change screen when pressed.
 - If you learn a function on a key, the original KAMELEON 4 function automatically becomes shifted. Press the MAGIC key then the key to access it (this excludes the POWER, Channel and Volume keys). If you learned on a digit key, access the original function by pressing magic twice and then the digit.
 - If you want to learn a function on a key that is not in the main screen, use the SCREEN key to change the screen.
 - The learning feature is mode specific. Therefore you can place one learned function per mode on the same key.
 - The KAMELEON 4 can learn approximately 30 functions. This depends on the other programmed functions and on the remote to be learned from.
 - You can replace a learned function by placing another learned function on top.
 - Please make sure not to use the learning procedure when in direct sunlight or under incandescent lights.
 - Make sure you are using new batteries before following the learning instructions above.
 - Upon changing the batteries, your learned functions will be retained.
-

■ Shifted Learning

It is also possible to place a function *shifted* on a key to maintain the original function.

Example: to place the **mono/stereo** function *shifted* on the "red" key.

To place the (e.g. **mono/stereo**) function shifted on the red key, simply follow steps 1-8 on page 11, only press "**MAGIC**" then the "**red**" key (instead of "16:9") during step 5.

To access the e.g. "mono/stereo" function in this example; simply press "**MAGIC**" then the "**red**" key.

-
- If a Shifted Learned function is placed on the POWER, Channel and Volume keys then the "Sleeptimer" and "Colour & Brightness features will be sacrificed.
 - If you place a function shifted on a digit key (0 - 9) you need to press MAGIC twice then the digit key to access this shifted function.
-

Learning Feature

To delete a learned function:

(To delete one single learned function, follow the steps below.)

Example: to delete the **mono/stereo** function learned on the **"16:9"** key in **TV mode**:

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 7 6**. The bottom part of the animated IR Indicator will blink twice.
3. Press the device key (example **TV**) in which the function will be deleted.
4. Press the learned key which you want to restore (example **"16:9"**) **twice**. The IR Indicator will blink twice.

-
- *The original function (if present) of the KAMELEON 4 will be restored.*
 - *If there is another learned function you want to delete, repeat steps 1 – 4.*
-

To delete a "Shifted" learned function:

(To delete one single "shifted" learned function, follow the steps below.)

Example: to delete the **mono/stereo** function learned *shifted* on the **"red"** key in **TV mode**:

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 7 6**. The bottom part of the animated IR Indicator will blink twice.
3. Press the device key (example **TV**) in which the function will be deleted.
4. Press **MAGIC** then press **twice, the learned key** which you want to restore (example **"red"** key). The IR Indicator will blink twice.

-
- *The original function (if present) of the KAMELEON 4 will be restored.*
 - *If there is another Shifted learned function you want to delete, repeat steps 1 – 4.*
-

To delete all learned functions within a certain mode

Example: to delete all learned functions within the TV mode:

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 7 6**. The bottom part of the animated IR indicator will blink twice.
3. Press the **mode key** in which you want to delete all functions **twice**. In our example, press **TV twice**. The IR Indication will light up twice.

To delete all learned functions across all modes:

1. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 8 0**. The IR Indicator will blink four times.

-
- *If you follow steps 1 and 2 above this may also delete some other programmed functions that are listed in this manual.*
-

Extra Features

Mode re-assignment

(How to set up two of the same devices on the KAMELEON 4)

It is possible to change the mode of any device key. This is useful if you want to set up two of the same devices on the KAMELEON 4. The modified device key will display the applicable keys for the revised mode. The code can be set up using "Direct set up" (p. 8) or "Search method" (p. 9). To change a device key, see the two examples below.

Example 1; if you like to program a second TV on the DVD key.

Example 2; if you like to program a second VCR on the SAT/CBL key.

Example 1:

To program a second Television on the DVD key (for example), you need to change the DVD key into a TV key, so press:



The DVD key has now become a second TV key and will display the applicable keys for this mode.

Now enter the Set-Up code for your second TV by pressing:



Example 2:

To program a second Video Recorder on the SAT/CBL key (for example), you need to change the SAT/CBL key into a VCR key, so press:



The SAT/CBL key has now become a second VCR key and will display the applicable keys for this mode.

Now enter the Set-Up code for your second VCR by pressing:



- If you program a different device type on another key (e.g. second TV on the DVD key) the original device key icon will remain, but the displayed function keys will change to suit the new device mode. For example; if a second TV is programmed on the DVD key, teletext functions will be displayed in DVD mode.

Resetting a Device key

Example: To reset the DVD key to its original mode, press:



- (*) Hold down the MAGIC key until the rabbit comes out of the hat.
- (**) The bottom part of the animated IR Indicator will blink twice.

Extra Features

Colour & Brightness

Depending on the functions of your original remote control, the **KAMELEON 4** can operate the colour and brightness settings of your Television.

To adjust the colour:

Press the **MAGIC** key followed by **Volume +** (for colour +) or **Volume -** (for colour -).

To adjust the brightness:

Press the **MAGIC** key followed by **Channel +** (for brightness +) or **Channel -** (for brightness -).

Depending on how you used colour and brightness on the original remote, you may need to access colour and brightness in a different way (through menu for example).

Channel +/- simulation

If your original TV, VCR, SAT/CBL or DVD remote control does not have any channel +/- keys, your **KAMELEON 4** can simulate this function.

Example: to program “Channel +/- Simulation” in TV mode.

1. Press **TV** once.
2. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
3. Press **9 7 1**. The bottom part of the animated IR Indicator will light up twice.

The original channel +/- function of your TV (if present) on the CH+/- key will now be sacrificed.

Example: to cancel the “Channel +/- Simulation” in TV mode:

1. Press **TV** once.
2. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
3. Press **9 7 1**. The bottom part of the animated IR Indicator will blink four times.

The CH+/- function of your TV (if present) will now be restored.

-
- *The Channel +/- simulation will be limited to: (1 – 9, 0).*
 - *It is only possible to switch Channel +/- simulation on for one mode at a time.*
-

Extra Features

Volume Punch-Through

This feature allows you to adjust the volume in a certain mode (e.g. TV mode) while being in a different mode (e.g. VCR). If for example you're watching a programme on your Video, you can adjust the volume (a TV function) without first pressing the TV key. The chart below lists some of the possibilities:

Last key pressed:

SAT/CBL :

VCR :

DVD :

You can control:

TV volume up and down, mute

TV volume up and down, mute

TV volume up and down, mute

Example: To punch through to TV volume, being in any other mode (VCR, SAT/CBL or DVD mode):

1. **Press and hold down the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 9 3**.
3. Then press the **TV** key and the bottom part of the animated IR Indicator will blink twice.

Example: being in any (e.g. DVD) mode, you will be able to control VOL+/- or MUTE functions of your TV.

To cancel the "Volume Punch Through" per mode:

(Example: to cancel the "Volume Punch Through" for the VCR mode)

1. Press **VCR** once.
2. **Press and hold down the MAGIC key until the rabbit** comes out of the hat.
3. Press **9 9 3**.
4. Then press the **VOL (-)** key and the bottom part of the IR Indicator will blink four times.

Example: being in VCR mode, you will be able to control VOL+/- or MUTE functions of your VCR (provided it has volume control).

To cancel the "Volume Punch Through" for all modes:

1. **Press and hold down the MAGIC key until the rabbit** comes out of the hat.
2. Press **9 9 3**.
3. Then press the **VOL (+)** key and the bottom part of the IR Indicator will blink four times.

- *In all modes the VOL+, VOL- and MUTE keys will now operate the original functions again.*

Extra Features

Sleeptimer

■ Device Sleeptimer

If your television or satellite receiver has a "Sleeptimer" function built in, you can access this function with your *KAMELEON 4* remote. To do so:

1. Make sure your **TV** (or **satellite receiver**) is **switched on**.
2. Press the device key **TV** (or **SAT/CBL**).
3. Point the *KAMELEON 4* at your television (or satellite receiver) and press and release the **MAGIC** key then press **POWER**. You should see the Sleeptimer activate on your TV screen.
To increase the timer, simply press **POWER** again (within 10 seconds) until the timer gets to the desired time.

-
- *To deactivate the "Device Sleeptimer", repeat steps 1 – 3 above. During step 3, continue pressing POWER again (within 10 seconds) until the timer indicates zero minutes.*
 - *Depending on how you used sleeptimer on the original remote, you might need to access sleeptimer in a different way (through menu for example).*
-

■ The *KAMELEON 4* Sleeptimer

If your device does not have a sleeptimer function built in, you can install the "*KAMELEON 4* Sleeptimer" function.

1. Press the device key (**TV** or **SAT/CBL**).
2. Then, **press and hold the MAGIC key until the rabbit** comes out of the hat.
3. Press **9 7 0**. The bottom part of the animated IR Indicator will light up twice again.

-
- *It is only necessary to follow steps 1, 2 and 3 once. For subsequent use of the "KAMELEON 4 Sleeptimer", simply follow steps 4, 5, 6 and 7.*
 - *To switch the KAMELEON 4 back to "Device Sleeptimer", repeat steps 1, 2 and 3. The IR Indicator will blink 4 times.*
-

It is possible to set the *KAMELEON 4* Sleeptimer for 15, 30, 45 or 60 minutes. To do this; see next page...!



Extra Features

4. Make sure that your **device is switched on**.
5. Press the device key (**TV** or **SAT/CBL**).
6. Now, press and release the **MAGIC** key, then press **POWER**. This will set the Sleep timer for 15 minutes. For each keypress of the **POWER** key the "zZz" animation will appear. To increase the timer by 15 minutes, simply press **POWER** again (this must be done within 10 seconds). You can press **POWER** up to a maximum of four times which will set the timer to 60 minutes (4x15).
7. Once you have set the timer to the desired time, **set your KAMELEON 4 down, pointing it at your device**. When the programmed amount of time has elapsed, the KAMELEON 4 will send the command for **POWER**, hence turning off your device.

-
- *While in sleeptime mode, the display will be turned off.*
 - *The "zZz" animation (next to the POWER key) will animate every 15 seconds indicating that the remote is in sleeptime mode.*
 - *To deactivate the Sleep timer, simply press any key on the KAMELEON 4 remote. This will also turn the display back on.*
 - *Remember, when using the KAMELEON 4 Sleep timer, you must set the remote so it is pointing at your device.*
 - *The KAMELEON 4 Sleep timer can only be set for only one device at a time.*
-

Macros (sequence of commands)

■ Macros (direct)

You can program your KAMELEON 4 to issue a sequence of commands at the press of one button. For example, you may want to turn off your TV, VCR and Satellite at the same time. Any sequence of commands you regularly use can be reduced to one key stroke for your convenience. A key that is programmed with a Macro works through all modes (provided it's accessible in that mode). Therefore a Macro should only be set on the **MACRO** key. However, you can install a Macro on any key, except for the device keys (TV, VCR, SAT/CBL and DVD), the **MAGIC** key and the **SCREEN** key.

Example: To set up a Macro *that switches off your TV, VCR and SAT/CBL* on the "MACRO" key on your KAMELEON 4:

1. **Press and hold MAGIC until the rabbit** comes out of the hat.
2. Press **9 9 5**.
3. Then press the key to which the Macro will be assigned, in this case the "**MACRO**" key.
4. Next press **TV, POWER, VCR, POWER, SAT/CBL, POWER**.
5. To store the Macro, **press and hold MAGIC until you get two blinks on the IR Indicator and the rabbit disappears**.
6. Whenever you press the "**MACRO**" key, the KAMELEON 4 will turn off your TV, VCR and Satellite receiver.

Extra Features

- Each MACRO can consist of a maximum of 15 keystrokes.
- To include a function from a particular screen in a mode, use the SCREEN key.
- Make sure that you program a Macro on a spare key that you don't use in any mode.
- Once you program a Macro on a specific key, the sequence will work regardless of the mode (TV, VCR, SAT/CBL or DVD) you are using. This means that the function picked on that specific key will be sacrificed.
- To avoid accidental recordings with the KAMELEON 4, you must press the RECORD key twice to begin recording. Please note that if you assign a Macro or Shifted Macro on the RECORD key this will deactivate the double key press. Therefore we recommend not to assign a Macro to this key.
- If you had to hold down a key for a few seconds on the original remote control to get a function, this function may not work in a macro on your KAMELEON 4 remote.
- Keys such as (TV) menu, (VCR) menu etc. will not change screen when pressed during Macro programming.
- Upon changing the batteries your Macros will be retained.
- If you program a Macro on a key, the original function will become shifted (excluding POWER, CH+/- and VOL+/- keys). Press MAGIC then the key to access it. If you place a Macro shifted on a digit key, access the original function by pressing MAGIC twice and then the digit key.
- You can replace a Macro by placing another Macro on top.

Shifted Macros

It is also possible to place a *shifted* Macro on a key to maintain the original function.

Example: To set up a Shifted Macro *that switches off your TV, VCR and SAT/CBL* on the "red" key on your KAMELEON 4: (so that you will keep the original function on that key).

MAGIC* 9 9 5 MAGIC "red key" "TV, POWER, VCR, POWER, SAT/CBL, POWER" MAGIC**

Now every time you press "**MAGIC**", then the "**red key**", the KAMELEON 4 will turn off your TV, VCR and Satellite.

- If a Shifted Macro is placed on the POWER, CH+/- or VOL+/- keys, the Sleep timer and Colour/Brightness features will be sacrificed.

To erase a (direct) Macro

Example: To erase the Macro from the "MACRO" key, press:

MAGIC* 9 9 5 "MACRO" MAGIC**

To erase a (shifted) Macro

Example: To erase the Shifted Macro from the "red key" press:

MAGIC* 9 9 5 MAGIC "red key" MAGIC**

- (*) Hold down the MAGIC key until the rabbit comes out of the hat.
- (**) Hold down MAGIC until the IR Indicator will blink twice and the rabbit will disappear.

Extra Features

Key Magic®

(How to program missing functions)

Key Magic® is an exclusive ONE FOR ALL feature. The design of the KAMELEON 4 ensures that many functions of your original remote control can be operated - even those that do not have their own key on the KAMELEON 4 keypad. Frequently used functions can be assigned to a key of your choice using the Key Magic® feature of your KAMELEON 4. In order to program a certain function with Key Magic® you need to know the corresponding function code. As the function codes vary with different types of devices, they cannot be found in the manual. You can request your function codes through our consumer service help-line, by letter, fax or e-mail. All we need to know is the 4-digit set-up code your device is working with and how the function was labeled on your original remote control. You can also visit our website (**www.oneforall.com**) to find an answer to your questions.

Once you obtain(ed) your function code(s) from customer service, programming the code is easy:

1. Press the device key (**TV, VCR, SAT/CBL or DVD**).
2. **Press and hold the MAGIC key until the rabbit** comes out of the hat.
3. Press **9 9 4**. The bottom part of the IR Indicator will blink twice.
4. Press the **MAGIC** key once.
5. Enter the **5-digit function code** (provided by customer service).
6. Press the **key to which the function will be assigned** (if this key is located in a different screen than the main screen, use the SCREEN key to access the screen). The IR Indicator will blink twice.

- *Key Magic® functions are mode specific. To access the function you have programmed, press the device key first.*
- *Key Magic® can be assigned to any key EXCEPT the following: Device keys, MAGIC key and the SCREEN key.*
- *Please note all the extended function codes you obtain from customer service for easy future reference.*
- *The SCREEN key can be used to assign a function to a key in a particular screen.*
- *Keys such as (TV) menu, (VCR) menu etc. will not change screen when pressed during Key Magic® programming.*

EXTENDED FUNCTION REFERENCE
(first entry is an example):

DEVICE	SET-UP CODE	FUNCTION	FUNCTIONCODE
TV	0556	16/9 format	00234

Trouble-Shooting

Problem & Solution

Problem:	Solution:
Your brand is not listed in the code section?	Try the search method on page 9.
The <i>KAMELEON 4</i> does not operate your device(s)?	A) Try all the codes listed for your brand. B) Try the search method on page 9.
The <i>KAMELEON 4</i> is not performing commands properly?	You may be using the wrong code. Try repeating the Direct Set-Up using another code listed under your brand or start the search method over again to locate the proper code.
Problems changing channels?	Enter the program number exactly as you would on your original remote.
Video / PVR / DVD not recording?	As a safety feature on your <i>KAMELEON 4</i> , you must press the Record key twice.
The <i>KAMELEON 4</i> does not respond after pressing a key?	Make sure you are using new batteries and are aiming the <i>KAMELEON 4</i> at your device.
Your original remote had a "20" key?	You can find this function on the AV key.
Upon each keypress, the <i>KAMELEON 4</i> reverts to TV mode and the display goes off.	Replace batteries with 4 fresh, new "AAA/LR03" alkaline batteries.

Televisions

Fernseher

Téléviseurs

Televisores

Televisões

Televisori

Televisies

A.R. Systems	0037	0556							
Accent	0037	0556							
Accuphase	0556	1909							
Acec	0012								
Adcom	0625								
Admiral	0093	0418	0087	0163	0264				
Adyson	0217	0216							
AEA	0037	0556							
Agashi	0216	0264	0217						
AGB	0516								
Agef	0087								
Aiko	0009	0037	0556	0216	0371	0035	0433		
	0072	0361	0191	0264	0217				
Aim	0037	0072	0412	0556					
Aiwa	0701								
Akai	0361	0208	0371	0037	0433	0191	0035		
	0009	0072	0218	0714	0163	0516	0715		
	0602	0556	0548	0581	0480	0217	0631		
	0216	0264	0178	0377	0606	1037			
Akiba	0218	0282	0455	0037	0556				
Akito	0037	0556							
Akura	0037	0556	0668	0412	0009	0218	0282		
	0264								
Alaron	0216								
Alba	0009	0418	0370	0235	0371	0668	0037		
	0556	1037	0355	0218	0216	0163	0487		
	0581	0036	0579						
Alkos	0035								
Allorgan	0206	0217							
Allstar	0037	0556							
Ambassador	0177								
Amplivision	0217	0370	0320						
Amstrad	0177	0009	0516	0264	0371	0218	0037		
	0556	0433	0412	1037	0648	0581			
Anam	0037	0556	0009						
Anam									
National	0037	0556	0650						
Anex	0421								
Anglo	0009	0264							
Anitech	0009	0264	0037	0556	0282	0102			
Ansonic	0370	0037	0556	0009	0668	0374	0163		
	0292	0102	0411	0259	0012	0104			
Apollo	0473								
Arc en Ciel	0109								
Arcam	0216	0217							
Ardem	0486	0714	0037	0556					
Aristona	0556	0037	0012						
Arthur Martin	0163								
ASA	0105	0346	0070	0104	0087				
Asberg	0037	0556	0102						
Asora	0009								
Astra	0037	0556							

Asuka	0218	0217	0216	0264	0282				
Atlantic	0037	0556	0216	0206	0320	0259			
Atori	0009								
Auchan	0163								
Audiosonic	0009	0037	0374	0556	0109	0714	0715		
	0217	0370	0337	0264	0218	0486			
Audioton	0217	0486	0370	0264					
Autovox	0087	0206	0349	0217					
AWA	0011	0036	0009	0157	0374	0412	0037		
	0556	0216	0606	0217	0108	0264			
Axxent	0009								
Axxon	0714								
Baird	0109	0193	0343	0190	0072	0073	0217		
	0208								
Bang &									
Olufsen	0565	0087	0275						
Barco	0380	0163							
Basic Line	0374	0037	0163	0668	0556	0009	0218		
	0282	0217	0455						
Bastide	0217								
Baur	0195	0512	0037	0556	0191	0361	0349		
	1505	1010							
Bazin	0217								
Beaumark	0178								
Beko	0486	0035	0714	0370	0037	0556	0606		
	0715								
Beon	0037	0556	0418						
Berthen	0668								
Best	0337	0370	0421						
Bestar	0037	0556	0370	0374					
Bestar-									
Daewoo	0374								
Binatone	0217								
Black									
Diamond	1037	0556							
Black Panther	0102								
Blacktron	0282								
Blackway	0282	0218							
Blaupunkt	0191	0195	0455	0170					
Blue Sky	0037	0714	1037	0487	0668	0715	1909		
	0556	0218	0282	0455					
Blue Star	0282								
Boots	0217	0009							
Bosch	0320								
BPL	0037	0556	0282						
Brandt	0625	0109	0335	0343					
Brandt									
Electronique	0335								
Brinkmann	0037	0556	0668	0519	0418	0486			
Brionvega	0037	0556	0087						
Britannia	0216	0217							
Brother	0264								
Bruns	0087								
BSR	0163	0361							
BTC	0218								
Bush	0668	0218	0163	0349	0009	0036	0037		
	0371	0235	0282	0355	0374	0519	0264		
	0361	1037	0487	0208	0217	0698	0581		
	0556	0714							
Canton	0218								
Capsonic	0264								
Carad	0610	0037	0556	0668					
Carena	0455	0037	0556						
Carrefour	0036	0070	0037	0556					
Carver	0170								
Cascade	0009	0037	0556						
Casio	0037	0556	0163	0349					
Cathay	0037	0556							

CCE	0037 0556 0217
Centrum	1037
Centurion	0037 0556
Century	0087 0238
CGE	0418 0370 0163
Cimline	0009 0235 0218
Citizen	0060
City	0009
Clarivox	0418 0037 0556 0070 0102
Clatronic	0037 0370 0371 0714 0218 0264 0556 0217 0009 0102 0320 0579 0648
Clayton	1037
CMS	0216
CMS hightec	0217
Concorde	0009
Condor	0320 0037 0556 0370 0216 0009 0282 0102 0418 0411 0163 0264
Conrad	0037 0556
Contec	0216 0009 0157 0011 0036 0264 0037 0556
Continental	
Edison	0109 0487
Cosmel	0009 0337 0037 0556
Crosley	0087 0163
Crown	0009 0370 0486 0037 0556 0487 0714 0606 0715 0421 0418 0579 0208 0339
CS Electronics	0216 0218
Curtis Mathes	0060 0093 0166
Cybertron	0218
D-Vision	0037 0556
Daewoo	0634 0374 1909 0499 0037 0556 0009 0216 0218 0217 1137
Dainichi	0218 0216
Dansai	0037 0556 0264 0035 0216 0009 0036 0217
Dansette	0412
Dantax	0370 0486 0714 0606 0715
Datsura	0208
Dawa	0037 0556
Daytron	0009 0374 0037 0556
de Graaf	0208 0044 0163 0548
Decca	0072 0516 0037 0556 0217 1137 0621
Deitron	0037 0556 0374 0218
Denko	0264
Denver	0037 0556 0606
DER	0193 0190
Desmet	0320 0037 0556 0009 0087
Diamant	0037 0556
Diamond	0264 0698 0696
Digatron	0037 0556
Digiline	0037 0556
Digitron	0037 0556
Digivision	0361
DiK	0037 0556
Dixi	0009 0037 0556 0217 0087
Domeos	0668
Doric	0349
DTS	0009
Dual	0349 0217 0343 0519 0037 0556 0259 0163
Dumont	0087 0104 0102 0217 0070 0072
Dunai	0163
Dux	0037 0556 0012
Dynatron	0037 0556 0012
E-Elite	0218
Edison-	
Minerva	0487

Elbe	0435 0238 0259 0292 0370 0163 0037 0556 0218 0191 0411 0610 0217 0516 0361
Elbe-Sharp	0516
Elcit	0087 0516 0102 0163
Elekta	0009 0037 0556 0264 0282
ELG	0037 0556
Elin	0216 0037 0556 0105 0104 0548 0361 0349 0163 0009
Elite	0218 0037 0556 0320
Elman	0102
Elta	0009 0264 0216
Emerson	0177 0178 0087 0037 0556 0371 0070 0282 0320 0361 1909 0486 0370 0163
Emperor	0282
Enzer	0696
Erres	0037 0556 0012
ESC	0037 0556 0217
Estèle	0163
Etron	0037 0556 0009 0163
Eurofeel	0264 0217
Euroman	0216 0264 0037 0556 0217 0421 0370
Europa	0037 0556
Europhon	0037 0516 0102 0163 0217 0556 0216
Excel	0037 0556
Expert	0206 0259 0163
Exquisit	0037 0556
Fagor	0037 0556
Family Life	0037 0556
Fenner	0374 0009
Ferguson	0073 0625 0190 0335 0238 0193 0109 0560 0037 0556 0035 0343 0104 0108 0361
Fidelity	0163 0512 0037 0556 0371 0412 0193 0216 0264
Filsai	0217
Finlandia	0208 0346 0548 0361 0163 0072 0343 0045
Finlux	0105 0104 0037 0556 0714 0346 0217 0072 0163 0516 0715 0070 0087 0102 0411 0631 0492 0480 0473 0418 0606
Firstline	0037 0556 0374 0668 0714 0163 0009 0216 1909 0102 0217 0411 0349 0238 0072 0235 0208 0361
Fisher	0104 0217 0036 0208 0370 0045 0087 0157 0361 0163 0349 0072
Flint	0037 0556 0610 0072 0218 0455 0264
FNR	0102
Forgestone	0193
Formenti	0163 0037 0556 0486 0216 0087 0320
Formenti-	
Phoenix	0216 0320
Fortress	0093 0087
Fraba	0037 0556 0370
Friac	0009 0037 0556 0102 0421 0370 0499 0655
Frontech	0264 0349 0217 0009 0163
Fujitsu	0206 0072 0102 0217 0163 0009 0683 0037 0556 0361 0259
Fujitsu	
General	0009 0217 0206 0163
Funai	0668 0264 0412
Future	0037 0556
Galaxi	0102 0037 0556 0361 0163
Galaxis	0370 0418 0037 0102 0556
Galeria	0009
GBC	0163 0009 0374 0218
GE	0343 0178 0282 0560 0109 0335

Geant Casino 0163
 GEC 0163 0361 0349 0037 0516 0556 0072
 0217
 Geloso 0009 0163 0374
 General 0109
 General Electric 0343
 General Technic 0009
 Genesis 0009
 Genexxa 0218 0037 0556 0412 0163 0009
 Giant 0217
 Goldfunk 0668
 Goldhand 0216
 Goldline 0337
 GoldStar 0037 0009 0370 0377 0217 0178 0216
 0556 0163 0361 0109 0606 0044
 Gooding 0487
 Goodmans 0634 0374 0037 0499 0556 1037 0668
 1909 0036 0264 0072 0516 0009 0487
 0371 0343 0235 0035 0480 0560 0217
 0335 0218
 Gorenje 0370 0421
 GPM 0218
 Gradiente 0170 0037 0556
 Graetz 0361 0371 0163 0037 0339 0556
 Gran Prix 0648
 Granada 0037 0556 0226 0356 0012 0045 0072
 0108 0208 0217 0036 0339 0516 0473
 0335 0560 0163 0225 0343 0548
 Grandin 0037 0556 0009 0163 0610 0714 0715
 0668 0374 0320 0282 0218 0455 0579
 Gronic 0102 0217 0163
 Grundig 0195 0191 0487 0070 0037 0556 0587
 0009 0036 0443 0370
 Haier 0698 0264
 Halifax 0264 0216 0217
 Hampton 0216 0217
 Hanimex 0218
 Hanseatic 0037 0556 0499 0519 0349 0163 0361
 0292 0282 0320 0634 0370 0009 0217
 0087 0377
 Hantarex 0009 0037 0556 0102 0516
 Hantor 0037 0556
 Harwood 0009 0412 0037 0556
 Hauppauge 0037 0556
 HCM 0009 0412 0037 0556 0217 0218 0418
 0282 0264
 Hedzon 0556 0037
 Hema 0217 0009
 Hemmermann 0349
 Hifivox 0109
 Higashi 0216
 Highline 0264 0037 0556
 Hikona 0218
 Hinari 0208 0037 0556 0009 0218 0036 0163
 0355 0443 0487 0235 0264
 Hisawa 0282 0218 0455 0610
 Hit 0087
 Hitachi 0225 1225 0349 0036 0356 0044 0108
 0473 0163 0343 0578 0217 0194 0516
 0072 0481 0499 0037 0556 0109 0548
 0719 0634 0744 0178 1137 0105 0492
 0361 0512 0480 1045
 Hitachi Fujian 0108 0225
 Hitsu 0009 0455 0218 0610
 HMV 0087
 Hornophone 0037 0556 0012

Hoshai 0218 0455
 Huanyu 0374 0216
 Hygashi 0217 0216
 Hyper 0009 0216 0217
 Hypersonic 0361
 Hypson 0037 0556 0714 0715 0264 0217 0282
 0455 0238
 Hyundai 0037 0556
 Iberia 0037 0556
 ICE 0264 0037 0371 0009 0556 0218 0217
 0216
 Ices 0218 0216
 Icos 0012
 Ict 0037 1137 0556
 Imperial 0037 0163 0370 0556 0411 0361 0349
 0418
 Indiana 0037 0556
 Ingelen 0487 0610 0714 0163 0361
 Ingersoll 0009
 Inno Hit 0009 0072 0037 0556 0218 0217 0516
 0102 0282
 Innovation 0519 0037 0556
 Interactive 0037 0556 0012 0087 0512 0275 0163
 0361 0370 0109
 Interbuy 0009 0037 0264 0512 0556
 Interfunk 0037 0556 0012 0087 0512 0275 0163
 0361 0370 0109 0349
 Internal 0037 0556 0499 0374 1909
 International 0216
 Intervision 0282 0217 0455 0037 0371 0377 0519
 0486 0370 0487 0218 0102 0163 0264
 0009 0556
 Irradio 0009 0037 0556 0218 0371
 Isukai 0218 0037 0556 0282 0455
 ITC 0217 0320
 ITS 0037 0371 0218 0282 0264 0216 0009
 0556
 ITT 0163 0480 0349 0361 0473 0548 0193
 0346 0339 0208 0610
 ITT Nokia 0361 0548 0163 0473 0480 0349 0346
 0208 0339 0606 0610 0631
 ITV 0264 0037 0556 0374
 Jean 0036
 JEC 0035
 JMB 0037 0499 0634 0374 0556 0443
 Jocel 0712
 Jubilee 0556
 JVC 0653 0190 0036 0193 0371 0218 0606
 0418
 Kaisui 0218 0282 0037 0556 0216 0455 0217
 0009
 Kamp 0216
 Kapsch 0163 0361 0206 0259 0104
 Karcher 0037 0556 0421 0370 0610 0163 0282
 0102 0264
 Kathrein 0556 0037
 Kawa 0371
 Kawasho 0216
 KB Aristocrat 0163
 Kendo 0610 0037 0556 0163 0519 0512 0370
 0377 0411 0102 0235
 Kennedy 0163 0206 0435
 Kenwood 0105
 Kingsley 0216
 Kiton 0556 0037
 Kneissel 0037 0370 0610 0411 0374 0499 0556
 0435 0259 0292 0238
 Kolster 0037 0556 0102 0349

Konka	0037	0556	0371	0714	0418	0218	0725
	0726						
Kontakt	0487						
Korpel	0037	0556					
Korting	0087	0421	0370	0320			
Kosmos	0037	0556					
Kotron	0412	0264					
Koyoda	0009						
Kraking	0238						
Kriesler	0012						
KTV	0217						
Kuba	0349	0163					
Kuba							
Electronic	0349	0163					
Kyoshu	0412	0418	0264				
Kyoto	0163	0216	0217				
LaSAT	0486	0370					
Leader	0009						
Lecson	0037	0556					
Lemair	0411						
Lenco	0037	0009	0163	0374	0556	0104	
Lenoir	0009						
Levis Austria	0037	0556					
Leyco	0264	0072	0037	0556	0579		
LG	0037	0370	0009	0377	0217	0556	0714
	0216	0163	0178	0361	0606	0109	
Liesenk & Tter	0037	0556					
Liesenkotter	0037	0012	0556				
Lifetec	0037	0009	0519	0374	0668	0512	0655
	1037	1137	0556	0218	0264		
Lloyd's	0009						
Loewe	0512	0037	0556	0655	0370	0633	0087
	0292						
Logik	0011	0060	0698	0037	0193	0556	0371
Logix	0668						
Luma	0037	0206	0163	0411	0556	0374	0009
	0259						
Lumatron	0206	0037	0556	0163	0259	0361	0217
	0264	0073					
Lux May	0037	0009	0556	0581			
Luxman	0579						
Luxor	0194	0480	0492	0349	0361	0208	0356
	0548	0163	0346	0473	0217	0631	
LXI	0178						
Madison	0037	0556					
Magnadyne	0087	0516	0102	0163			
Magnafon	0516	0102	0216	0073			
Magnavox	0037	0556	0036				
Magnum	0648	0714	0037	0556	0715		
Mandor	0264						
Manesth	0037	0556	0235	0217	0264	0320	0035
	0163						
Manhattan	0037	0556	0668	1037	0163		
Marantz	0037	0556	0412				
Marelli	0087						
Mark	0037	0556	0217	0216	0374	0009	0714
	0715						
Masuda	0218	0371	0009	0264	0037	0217	0556
Matsui	0037	0556	0487	0009	0235	0177	0011
	0355	0072	0036	0217	0371	0433	0443
	0579	0455	0163	0349	0516	0035	0208
	0045	0195	0191	0335			
Matsushita	0650						
Matsuviana	0587						
Mediator	0037	0556	0012				
Medion	0037	0668	0519	0512	0556	1137	0698
	0808						
Megas	0610						

Megatron	0178						
Melectronic	0346	0037	0512	0109	0343	0105	0104
	0374	0009	0217	0480	0492	0216	0411
	0349	0163	0556	0634	0361	0191	0195
Memorex	0009	0178	0060				
Memphis	0337	0072	0009				
Mercury	0037	0009	0556				
Metz	0195	0447	0191	0367	0746	0037	0087
	0556	0275	0587	0668	1037		
MGA	0178	0037	0556	0218	0104		
Micromaxx	0037	0556	0668	1037	0808		
Microstar	0808						
Minato	0037	0556					
Minerva	0487	0195	0070	0191	0516	0108	
Minoka	0412	0037	0556				
Mistral							
Electronics	0193						
Mitsubishi	0108	0093	0512	0037	0178	0087	0036
	0193	0556	0208				
Mitsuri							
General	0163						
Mivar	0292	0370	0216	0609	0516	0217	
Monaco	0009						
Morgan's	0037	0556					
Motorola	0093						
MTC	0060	0370	0349	0512	0163	0216	0361
Multi-							
broadcast	0193						
Multistandard	0102						
Multitec	0037	0556	0486	0668	1037		
Multitech	0349	0009	0486	0037	0370	0556	0217
	0216	0102	0264				
Murphy	0104	0216	0072	0163			
Musikland	0037	0218	0556				
Myriad	0556	0037					
NAD	0166	0178	0361	0163			
Naiko	0037	0606	0556				
Nakimura	0374	0037	0556				
Naonis	0163						
NAT	0226						
National	0226						
NEC	0170	0036	0320	0455	0009	0374	0217
	0037	0556	0011	0499			
Neckermann	0037	0191	0370	1505	1010	0556	0163
	0418	0349	0087	0217	0411	0320	0512
NEI	0037	0556	0337	0371	0163		
Netsat	0037	0556					
Network	0337						
Neufunk	0037	0009	0556	0610	0218	0282	0714
New Tech	0037	0009	0556	0343	0217		
New World	0218						
Nicamagic	0216						
Nikkai	0072	0218	0037	0556	0217	0264	0035
	0337	0216	0009	0036			
Nikko	0178						
Nobliiko	0102	0070	0216				
Nogamatic	0109						
Nokia	0361	0163	0480	0349	0548	0492	0473
	0339	0208	0374	0631	0606	0346	0320
	0610	0109					
Nordic	0217						
Nordmende	0109	0714	0343	0560	0195	0037	0556
	0335	0163					
Norfolk	0163						
Normerel	0037	0556					
Novak	0012						
Novatronic	0037	0105	0374	0556			
Nurnberg	0163	0361					

Oceanic	0163	0361	0208	0473	0548	0480
Odeon	0264					
Okano	0370	0037	0556	0264	0072	0009
Omega	0264					
Onwa	0371	0602	0218	0433	0581	0102
Opera	0037	0556				
Optimus	0650	0166				
Optonica	0093					
Orbit	0037	0556				
Orion	0037	0355	0556	0655	0714	0235 0177
	0320	0011	0009	0443	0102	0264 0412
	0516					
Orline	0037	0218	0556			
Ormond	0668	1037	0037	0556		
Orsowe	0516					
Osaki	0072	0218	0217	0264	0037	0412 0374
	0355	0556				
Osio	0037	0556				
Oso	0218					
Osume	0157	0072	0036	0218	0037	0556
Otto Versand	1505	1010	0036	0093	0512	0037 0556
	0195	0349	0191	0361	0235	0109 0226
	0320	0217	0009	0282	0343	0516 0519
Pacific	0037	0556	1137			
Pael	0216					
Palladium	0370	0037	0191	1505	1010	0418 0556
	0349	0087	0163	0217	0411	0655 0519
Palsonic	0264	0412	0037	0217	0377	0218 0698
	0556					
Panama	0009	0217	0264	0216	0037	0556
Panasonic	0650	1650	0226	0361	0367	0516 0037
	0556	0163	0548			
Panavision	0037	0411	0556			
Pathe Cinema	0163	0238	0216	0320	0292	0349 0370
Pathe						
Marconi	0109					
Pausa	0009					
Perdio	0072	0320	0163	0037	0216	0282 0556
Perfekt	0037	0556				
Philco	0087	0418	0163	0370	0037	0556 0519
Philex	0193	0163				
Philharmonic	0217					
Philips	0556	0037	0238	0012	0721	0191 0087
	0193	0343	0374			
Phoenix	0037	0556	0370	0486	0163	0087 0072
	0216	0320				
Phonola	0037	0556	0012	0087	0193	0216
Pilot	0556	0037	0712			
Pioneer	0166	0037	0556	0370	0343	0361 0109
	0163	0486	0512	0760		
Pionier	0370	0486				
Plantron	0037	0556	0264	0009		
Playsonic	0217	0714				
Policom	0102	0109	0206	0238	0275	0361 0163
	0070	0087				
Polytron	0697					
Poppy	0009					
Portland	0374	1909				
Powerpoint	0487					
Prandoni-						
Prince	0516	0361				
Precision	0217					
Premier	0009					
Prima	0009	0264	0412			
Prinz	0072	0349	0361	0194		
Profex	0009	0163	0361			
Profi	0009					
Profitronic	0037	0556	0102			

Proline	0037	0556	0625	0634	0411	0012 0072
Prosonic	0037	0556	0370	0374	0371	0668 0714
	0216	0579				
Protech	0037	0556	0217	0009	0349	0102 0264
	0418	0337	0668	0282	0163	0486
Proton	0178					
Provision	0499	0037	0556	1037		
Pye	0037	0556	0012	0087	0374	0349 0412
Pymi	0009					
Quadral	0218					
Quasar	0650	0009				
Quelle	0037	1505	1010	0011	0109	0512 0349
	0191	0361	0036	0217	0070	0104 0105
	0668	0556	0157	0195	0264	0346 0421
	0009					
Questa	0036					
R-Line	0037	0556	0163			
Radialva	0109	0218	0163	0037	0556	
Radiola	0037	0556	0012	0217		
Radiomarelli	0087	0516	0037	0556		
RadioShack	0037	0556	0178			
Radiotone	0009	0037	0556	0370	0579	0418 0412
	0648	0668	0264			
Rank	0070					
Rank Arena	0036	0157				
RBM	0070					
RCA	0625	0093	0560	0335	0343	
Realistic	0178					
Recor	0037	0556				
Rectiligne	0037	0556				
Rediffusion	0361	0548	0036	0346		
Redstar	0037	0556				
Reflex	0037	0556	1037	0668		
Reoc	0714	0634	1909			
Revox	0037	0556	0370			
Rex	0206	0411	0163	0259	0264	
RFT	0087	0292	0370	0072	0264	0037 0556
Rhapsody	0216					
Ricoh	0037	0556				
Roadstar	0009	0418	0037	1037	0556	0218 0264
	0282					
Robotron	0087					
Rodex	0037	0556				
Rowa	0264	0698	0217	0712		
Royal Lux	0421	0370	0412	0335		
Rukopir	0556	0037				
Saba	0625	0087	0163	0109	0516	0343 0361
	0498	0335	0548	0560		
Saccs	0238					
Sagem	0610	0455	0282			
Saisho	0235	0516	0177	0009	0011	0217 0163
	0264					
Saivod	0037	0556				
Sakai	0163					
Salora	0194	0349	0163	0356	0361	0516 0548
	0339	0208				
Salsa	0335					
Sambers	0516	0102				
Samsung	0618	0587	0037	0178	0556	0009 0217
	0370	0264	0216	0644	0060	0072 0208
	0519	0163				
Sandra	0216	0217				
Sanela	0238					
Sansui	0037	0556	0371	0655	0726	0725 0602
	0421	0455				
Santon	0009					

Sanyo	0208 0157 0292 0036 0011 0370 0339
	0072 0216 0217 0104 0045 0009 0163
	0037 0108 0556 0486
Save	0037 0556
SBR	0037 0556 0012 0193
Schaub	
Lorenz	0349 0548 0714 0606 0361 0486 0374
Schneider	1137 0037 0556 0519 0012 0349 0259
	0343 0217 0371 0361 0218 0668 1037
	0163 0648 0714 1909
Scotland	0163
Scott	0178
Sears	0178
SEG	0037 0556 1037 1437 0668 0217 0487
	0009 0349 0163 0264 0634 0036 0102
	0216 0218 1909
SEI	0087 0102 1505 1010 0163 0516 0349
	0206 0037 0556 0177
Sei-Sinudyne	0102 0206 0516 1505 1010 0037 0556
	0087
Seleco	0206 0259 0163 0411 0371 0036 0264
	0346
Sencora	0009
Sentra	0035 0218 0009 0349
Serino	0610 0455 0216 0093
Sharp	0093 1193 0157 0036 0653 0193 0516
	0760
Shintoshi	0037 0556
Shivaki	0037 0556 0443 0374
Siarem	0163 0087 0102 0516
Siemens	0191 0195 0157 0037 0556 0361
Siera	0037 0556 0012
Siesta	0370
Silva	0037 0556 0216 0361 0648
Silver	0036 0037 0455 0361 0556 0715 0163
Singer	0009 0087 0037 0556 0102 0435 0335
	0163
Sinudyne	0177 0087 0235 0102 0163 0361 0516
	0349 1505 1010 0206 0037 0556
Skantic	0356
Sky	0037 0556
Skymaster	0105
Skysonic	0696
SLX	0668
Smaragd	0487
Sogera	0320
Solavox	0361 0072 0163 0548 0037 0556
Sonawa	0218
Soniko	0037 0556
Sonitron	0208 0370 0339 0217
Sonneclair	0037 0556
Sonoko	0037 0556 0009 0264 0282 0217
Sonolor	0208 0163 1505 1010 0548 0361 0282
Sontec	0037 0556 0370 0009
Sony	1505 1651 1010 0011 0036 0102 0037
	0556
Sound &	
Vision	0102 0218 0374 0037 0556
Soundesign	0178
Soundwave	0037 0556 0320 0418
Spectra	0009
Ssangyong	0009
Staksonic	0009
Standard	0037 0556 1037 0218 0009 0217 0320
	0374
Starlite	0009 0163 0037 0556 0264 0412
Stenway	0282 0218
Stern	0206 0259 0163 0264 0411 0435

Strato	0037 0556 0264 0009
Stylandia	0217
Sunic Line	0037 0556
Sunkai	0355 0455 0218 0235 0610 0037 0556
	0487
Sunstar	0371 0037 0556 0009 0579 0264
Sunwood	0037 0556 0009
Superla	0516 0216 0217
SuperTech	0009 0037 0556 0216 0218
Supra	0374 0009
Susumu	0335 0218
Sutron	0009
Sydney	0216 0217
Sysline	0037 0556
Sytong	0216
T+A	0447
Tandberg	0367 0411 0109 0337 0361 0163
Tandy	0218 0072 0217 0093 0163
Tashiko	0036 0217 0170 0216 0163
Tatung	0037 0556 0072 0516 0217 0011 0621
TCM	0714
Teac	0698 0512 0037 1437 1037 0556 0712
	0668 0455 0217 0264 1909 0178 0009
	0412 0349 0721 0282 0418
TEC	0217 0009 0335 0337 0259 0037 0556
	0361 0163
Tech Line	0037 0556 0668 1437
Techica	0218
Technema	0320
TechniSat	0655 0037 0556 0163
Tecnimagen	0556
Tedalex	0217 0606 0009 0208 0587 0037 0556
Teiron	0009
Teknika	0060
Teleavia	0109 0343
Telecor	0037 0163 0556 0218 0217 0259
Telefunken	0109 0498 0335 0073 0343 0037 0556
	0486 0625
Telefusion	0037 0556
Telegazi	0037 0163 0556 0259 0218 0264
Telemeister	0320 0037 0556
Telesonic	0037 0556
Telestari	0037 0556 0579 0412
Teletech	0037 0556 0668 0009 0337
Teleton	0217 0275 0206 0163 0349 0259 0036
Televideon	0320 0163 0216
Television	0037 0556
Telexa	0102
Tempest	0009 0037 0556
Tennessee	0037 0556
Tensai	0104 0218 0037 0556 0217 0320 0009
	0105 0374 0371 0377 0715 0163
Tenson	0320 0009
Tevion	0519 0037 0556 0648 0668 1137
Texet	0217 0374 0009 0216 0218
Thomson	0625 0560 0109 0335 0343 0037 0556
	0349
Thorn	0193 0073 0190 0238 0499 0037 0104
	0556 0335 0512 0374 0035 0108 0109
	0225 0343 0361 1505 1010 0072
Thorn-	
Ferguson	0104 0108 0109 0190 0238 0193 0361
	0335 0499 0073 0035
TMK	0178 0177
Tokai	0072 0037 0556 0337 0163 0668 0217
	0374 0009
Tokyo	0216 0035
Tomashi	0282 0218

Toshiba	0035	0060	0508	0036	0070	0102	1508
	0217	0109	0718	0195	0191	0618	
Towada	0349	0102	0217				
Toyoda	0009	0371					
Trakton	0264						
Trans							
Continens	0668	0217	0037	0556			
Transonic	0037	0556	0455	0587	0512	0264	0698
	0712						
Transtec	0216						
Triad	0037	0556					
Trical	0157						
Trident	0516	0217					
Tristar	0264	0218	0193				
Triumph	0177	0516	0346	0556	0037		
Tsoshi	0282						
TVTEXT 95	0556						
Uher	0037	0556	0206	0320	0374	0418	0486
	0370	0259					
Ultravox	0087	0102	0374	0216	0163	0037	0556
Unic Line	0037	0556	0473	0455	0349		
United	0037	0556	0714	0715			
Universum	0346	0105	0195	0473	0361	0492	0480
	0370	0418	0011	0512	0036	0157	0070
	0163	0264	0104	0037	0556	0421	0411
	1505	1010	0668	0349	0217	0109	0337
	0177	0631	0009				
Univox	0037	0556	0337	0087	0163	0238	
Utax	0163						
Vestel	0037	0163	0217	0556	0668	1037	
Vexa	0009	0037	0556				
Videologic	0218						
Videologique	0216	0218	0217				
VideoSystem	0037	0556					
Videotechnic	0216	0320	0217	0374			
Videoton	0356	0163					
Vidikron	0102						
Vidtech	0036	0178					
Viper	0337						
Visiola	0216						
Vision	0037	0556	0320	0217			
Vistar	0206	0361					
Vortec	0037	0556					
Voxson	0087	0037	0556	0418	0163		
Waltham	0217	0668	0356	0418	0037	0556	0109
Watson	0037	0320	0556	0163	0218	0579	0519
	0009	0668	1037				
Watt Radio	0102	0349	0163	0216			
Wega	0037	0556	0036	0087			
Wegavox	0009	0037	0556				
Weltblick	0037	0556	0320	0217			
Weston	0037	0556					
Wharfedale	0037	0519	0556				
White Wes-							
tinghouse	0320	0216	0037	0556	0337	1909	
Windsor	0668						
Windstar	0282	0337					
Windy Sam	0556						
Wintel	0714						
Xrypton	0037	0556					
Yamishi	0282	0455	0218	0037	0217	0556	
Yokan	0037	0556					
Yoko	0217	0037	0556	0218	0264	0009	0421
	0370	0339	0216				
Yorx	0218						
Zanussi	0206	0217					
Zenith	1909						
Zenor	0339						

Video Recorders

Videorecorder

Magnétoscopes

Vídeos

Vídeo Gravadores

Videoregistratori

Videorecorders

Accuphase	0637
Adyson	0072
Aiwa	0307 0000 0348 0352 0037 0041
Akai	0106 0315 0041 0352 0240
Akashi	0072
Akiba	0072
Akura	0072 0041
Alba	0278 0072 0352 0000 0315 0348 0081
Allorgan	0240
Allstar	0081
Amstrad	0000 0278 0072
Anitech	0072
Ansonic	0000
Aristona	0081
ASA	0037 0081
Asuka	0072 0037 0081 0000 0038
Audiosonic	0278
AVP	0352 0000
AWA	0037 0278 0642 0043
Baird	0106 0278 0104 0041 0000
Bang &	
Olufsen	0499
Basic Line	0278 0072
Bestar	0278
Black	
Diamond	0642 0278
Black Panther	0278
Blaupunkt	1562 0226 0081 0034
Blue Sky	0037 0348 0072 0352 0278 0000
Bondstec	0072
Brandt	0041 0320 0321
Brandt	
Electronique	0041
Brinkmann	0348
Bush	0072 0278 0315 0352 0000 0348 0081
Carena	0081
Carrefour	0045
Casio	0000
Cathay	0278
CGE	0041 0000
Cimline	0072
Clatronic	0072 0000
Combitech	0352
Condor	0278
Crown	0278 0072
Cyrus	0081
Daewoo	0278 0642 0637 0348 0352 0045
Dansai	0072 0278
Daytron	0278
de Graaf	0042 0166 0081 0104 0048
Decca	0000 0041 0081 0067 0348
Deitron	0278

Denko 0072
Diamant 0037
Dual 0041 0081 0278 0000
Dumont 0000 0081 0104
Elbe 0278 0038
Elcatech 0072
Elin 0240
Elsay 0072
Elta 0072 0278
Emerson 0072 0045 0000
ESC 0278 0240
Etzuko 0072
Ferguson 0041 0320 0321 0000 0278
Fidelity 0000 0072 0240
Finlandia 0104 0081 0042 0166 0000 0048 0384
Finlux 0000 0081 0104 0042
Firstline 0072 0348 0043 0037 0045 0042 0278
Fisher 0047 0104 0038
Frontech 0072
Fujitsu 0000
Funai 0000
Galaxi 0000
Galaxis 0278
GE 0320
GEC 0081
General
Technic 0348
Genexxa 0104
Goldhand 0072
GoldStar 0037 0480 0000
Goodmans 0000 0072 0240 0278 0037 0081 0348
0637 0352 0642
Graetz 0041 0104 0240
Granada 0104 0048 0081 0240 0037 0226 0042
0000
Grandin 0072 0037 0000 0278
Grundig 0081 0347 0226 0320 0348 0072
Haaz 0348
Hanimex 0352
Hanseatc 0037 0278 0081 0038
Harwood 0072
HCM 0072
Hinari 0072 0352 0041 0278 0240
Hisawa 0352
Hischito 0045
Hitachi 0042 0166 0041 0000 0240 0081 0104
0384
Hornophone 0081
Hypson 0072 0278 0352
Imperial 0000 0240
Ingersoll 0240
Inno Hit 0240 0278 0072
Interbuy 0037 0072
Interfunk 0081 0104
Internal 0278 0637
International 0278 0037
Intervision 0000 0278 0037 0348
Irradio 0072 0037 0081
ITT 0106 0041 0384 0104 0240
ITT Nokia 0048
ITV 0278 0037
JMB 0352
Joyce 0000
JVC 0041 0067 0384
Kaisui 0072
Karcher 0278
Kendo 0106 0315 0348 0072 0037
Kenwood 0041 0038

KIC 0000
Kimari 0047
Kneissel 0352 0348 0037
Kolster 0348
Korpel 0072
Kuba 0047
Kuba
Electronic 0047
Kuwa 0226
Kyoto 0072
Lenco 0278
Leyco 0072
LG 0037 0480 0000 0278
Lifetec 0348
Loewe 0081 1562 0226 0037
Logik 0240 0072 0106
Lumatron 0278
Luxor 0106 0043 0072 0104 0047 0048
Magnavox 0081
Manesth 0072 0045 0081
Marantz 0081 0038
Mark 0278
Matsui 0348 0037 0240 0352 0000
Mediator 0081
Medion 0348 0352
Melectronic 0000 0037 0038
Memorex 0104 0000 0037 0048 0047
Memphis 0072
Metz 1562 0347 0081 0226 0037
Micormay 0348
Migros 0000
Mitsubishi 0043 0067 0081 0480
Multitec 0037
Multitech 0000 0072 0104
Murphy 0000
Myryad 0081
NAD 0104
National 1562 0226
NEC 0041 0038 0067 0104 0037
Neckermann 0041 0081
Nesco 0072 0000 0352
Nikkai 0072 0278
Nokia 0104 0106 0315 0041 0278 0240 0048
0042 0081
Nordmende 0041 0384 0320 0321 0494 0067
NU-TEC 0348
Oceanic 0000 0048 0106 0081 0104 0041
Okano 0315 0348 0072 0278
Orbit 0072
Orion 0352 0348
Orson 0000
Osaki 0000 0037 0072
Osune 0072
Otto Versand 0081
Palladium 0072 0315 0037 0041 0240 0348 0432
Palsonic 0072 0000
Panasonic 1562 1662 0226 0836
Pathe Cinema 0043
Pathe
Marconi 0041
Perdio 0000
Philco 0038 0072
Philips 0081 0384
Phoenix 0278
Phonola 0081
Pioneer 0067 0081 0042
Portland 0278 0637
Prinz 0000

Profitronic	0081 0240
Proline	0000 0320 0321
Proscio	0278
Prosonic	0278 0000
Protech	0081
Provision	0278
Pye	0081
Quasar	0278
Quelle	0081
Radialva	0037 0072 0081 0048
Radiola	0081
Rank	0041
Reoc	0348 0637 0278
Rex	0041 0384
RFT	0072
Roadstar	0240 0072 0037 0278
Royal	0072
Saba	0041 0320 0321 0384 0494 0278
Saisho	0348
Salora	0043 0106 0104
Samsung	0240 0432
Sansui	0041 0067 0106 0072 0348
Sanyo	0104 0047 0048 0067
Saville	0352 0278 0240
SBR	0081
Scan Sonic	0240
Schaub	
Lorenz	0041 0104 0000 0106 0315
Schneider	0072 0000 0037 0081 0278 0240 0042
Seaway	0278
SEG	0072 0240 0278 0642 0081
SEI	0081
Sei-Sinudyne	0081
Seleco	0041 0384 0037
Sentra	0072
Setron	0072
Sharp	0048 0037 0569
Shintom	0072 0104
Shivaki	0037
Siemens	0037 0104 0081 0320 0347
Siera	0081
Silva	0037
Silver	0278
Singer	0045
Sinudyne	0081
Smaragd	0348
Sonitron	0047
Sonneclair	0072
Sonoko	0278
Sonolor	0048
Sontec	0037 0278
Sony	0034 0032 0106 1032
Soundwave	0037 0348
Ssangyong	0072
Standard	0278
Starlite	0037 0104
Stern	0278
Sunkai	0348 0278
Sunstar	0000
Suntronic	0000
Sunwood	0072
Supra	0037 0240
Symphonic	0000 0072
T+A	0226
Tandberg	0278
Tashiko	0000 0048 0240 0081 0037
Tatung	0000 0041 0081 0048 0043 0348 0352

VCR

Teac	0072 0041 0000 0278 0642 0037 0081 0307
TEC	0278 0072
Tech Line	0072
TechniSat	0348
Teleavia	0041
Telefunken	0041 0320 0321 0384 0494 0278
Teletex	0072 0278 0000
Tenosal	0072
Tensai	0000 0037 0072
Tevion	0348
Thomson	0320 0321 0041 0067 0384 0494 0278
Thorn	0041 0104 0037
Thorn-	
Ferguson	0320
Tokai	0072 0037 0041 0104
Tokiwa	0072
Topline	0348
Toshiba	0045 0041 0384 0043 0081
Towada	0072
Tredex	0278
Uher	0037 0240
Ultravox	0278
Unitech	0240
United	
Quick Star	0278
Universum	0000 0081 0240 0037 0106 0348 0104
Victor	0067
Watson	0081 0352 0278 0642
Weltblick	0037
Yamaha	0041
Yamishi	0072 0278
Yokan	0072
Yoko	0037 0072 0240
Zenith	0637

VCR

Satellite Receivers

Satellitenempfänger

Récepteurs satellites

Receptores de satélite

Receptores de satélite

Ricevitori via Satellite

Satelliet-ontvangers

@sat	1300
ABsat	0832 0123 1323 0710
ADB	0642
Adcom	0200
AGS	0710
Akai	0200
Alba	0455 0713
Allsat	0200 1017
Alltech	0713
Alpha	0200
Altai	0396
Amitronica	0713
Ampere	0396 0132
Amstrad	0345 0847 0713 0396 0132 0882 0885 0863 0501 0795 1113
Anglo	0713
Ankaro	0713

SAT

AntSat	1017	1083
Apollo	0455	
Arcon	1205	0834 0132 1075
Armstrong	0200	
Asat	0200	
ASLF	0713	
AssCom	0853	
Astacom	0710	
Aston	1261	
Astra	0108	0607 0713
Astro	0133	0173 0501 0658 0607 1113 1099
	0200	0292
Atlanta	0871	
Aurora	0879	
Austar	0863	0642 0497 0879 1176
Avalon	0396	
Axiel	0710	
Axis	1111	0834
Barcom	0108	
Beko	0455	
Bentley		
Walker	1017	
Blaupunkt	0173	
Blue Sky	0713	0885
Boca	0132	0713
Boston	0132	0710
Broco	0713	
BskyB	0847	1175
BT	0710	
Bubu Sat	0713	
Cambridge	0501	
Canal		
Satellite	0853	0292
Canal+	0853	0292
Cherokee	0123	0710 1323
Chess	0605	0713
CityCom	1176	0115 0607 0299
Clemens		
Kamphus	0834	0396
Cobra	0396	
Colombia	0132	
Columbia	0132	
Comag	0132	
Condor	0607	
Connexions	0396	
Conrad	0607	0573 0115 0501
Conrad		
Electronic	0607	0713
Cryptovision	0455	0795
Cyrus	0200	
D-box	1127	1114 0723
Daeryung	0396	
Daewoo	1296	0713
Delfa	0863	
Deltasat	1075	
DGTEC	1242	
Digatron	1294	
Digenius	0299	
Digiality	0607	
DigiQuest	0863	
Discoverer	0605	
Discovery	0710	
Diseqc	0710	
Distratel	0084	0885 1205
Distrisat	0200	
DMT	1075	
DNT	0200	0396

SAT

DREAM multi-	
media.TV	1237
Echostar	0610 0871 0167 0853 1086 1200 0396
	0713
Einhell	0132 0713 0501
Elap	0713 0710
Elsat	0713
Elta	0200
Emme Esse	0871
Engel	1017 0713
EP Sat	0455
Eurieult	0084 0885 0882 0136
Eurocrypt	0455 0108
Europa	0863 0607 0501 0200
Europhon	0299 0607
Eurosky	0607 0132 0299 0115 0114 0501
Eurostar	0607 0115
Fenner	0605 0713
Ferguson	0455
Fidelity	0501
Finlandia	0455 0108
Finlux	0108 0573 0455
Flair Mate	0713
Force	1101
Fortec Star	1017 1083
Foxtel	0879 0720 0455 0497 0795 1176 0345
Fracarro	0871
Freecom	0501 0173
Freesat	0882
FTEmaximal	0713 0863
Fuba	0396 0173 0573 0108 0115 0299
Galaxis	1111 1101 0834 0863 1176 0853 0115
	0879
Garnet	1075
GF	0834
GOD Digital	0200
Goldbox	0292 0853
Goldvision	1017
Goodmans	1284 0455
Gradiente	0887
Granada	0108 0455
Grandin	0084 0136
Grundig	0173 0847 1291 0345 0879 0885 0853
	0501
Hanseatic	0605 1099
Hänsel &	
Gretel	0132 0607
Hauppauge	1294
HDT	1011
Heliocom	0607
Helium	0607
Hirschmann	0396 0882 1113 1111 0173 0573 0299
	0501 0710 0607 0108
Hitachi	0455
Houston	0396
Humax	1176 0863
Huth	0132 0607 1017 1075
Hypson	0136
Hyundai	1011 1159 1075
ID Digital	1176 0863
Imex	0084 0136
Ingelen	0396 0882
International	0132
Interstar	1017
Intervision	0607
Invideo	0871
Italtel	0871
ITT	0108

SAT

ITT Nokia 0108 0573 0455 0723
 JOK 0710
 K-SAT 0713
 Kamm 0713
 Kaon 1300
 KaTelco 1111
 Kathrein 0658 0249 0173 1221 0200 0713 0123
 0115 1323 0710
 Kathrein
 Eurostar 0115
 Kiton 0114
 Klap 0710
 Konig 0607
 Koscom 0834
 Kreiling 0658 0249 0114
 Kreismeyer 0173
 Kyostar 0132
 Labgear 1296
 LaSAT 0607 0115 0132 0299
 Lenco 0713 0115 0607
 Lenson 0501
 Lexus 0200
 LG 1075
 Lifesat 0605 0299 0713
 Logix 1017 1075
 Lorenzen 0299 1294 0607 0132
 Luxor 0108 0345 0573 0501
 M&B1 0605
 Manata 0710 0136 0713
 Manhattan 1083 0455 0710 0834 1017
 Marantz 0200
 Maspro 0713 0173
 Matsui 0710 0173
 Max 0607
 MB 0605
 Mediabox 0292 0853
 Mediacom 1206
 MediaSat 0501 0292 0853
 Medion 0713 0299
 Medison 0713
 Mega 0200
 Metronic 0713 1282 0084 0136 0885 1205
 Metz 0173
 Micro 0607 0501 0713
 Micro
 electronic 0713
 Micro
 Technology 0713
 Micromaxx 0299
 Microtec 0713
 Mitsubishi 0455
 Morgan's 0200 0713 0132
 Motorola 0856
 Multichoice 0642 0879
 Myryad 0200
 Mysat 0713
 Netgem 1322
 Neuhaus 0501 0713 0834 0607
 Neusat 0713 0834
 Nikko 0713 0723 0200
 Nokia 1114 0751 1127 0723 0853 0573 0108
 0455 1723
 Nordmende 0455
 Nova 0879
 OctalTV 1294
 OnDigital 0751 0329 0241 0867 0133
 Optex 0834
 Optus 0879 0292 0853

SAT

Orbitech 1099 0200 0292 0501
 Origo 0497
 OSAT 0345
 Ouralis 1205
 Pace 0455 0847 0887 1175 0241 0867 0123
 1323 0795 0720 0497 0200 0853 0710
 Packsat 0710
 Palcom 0299
 Palladium 0501
 Palsat 0501
 Panasat 0879
 Panasonic 0847 1104 0455 1320
 Panda 0455 0108 0607 0173 0834
 Philips 0200 1114 0292 0853 0455 0710 0173
 0133
 Phonotrend 0863 1017 1200
 Pioneer 0329 0853 0292 0352
 Planet 0871 0396
 Polytron 0396
 Preisner 0132 0396 1101 1113
 Premier 0292
 Premiere 0853 1114 1127 0723 1111 1176 0249
 0658
 Primacom 1111
 Profile 0710
 Promax 0455
 Pyxis 0834
 Quadral 0710 1323
 Quelle 0607 0115
 Radiola 0200
 Radix 0396 1113 0882
 RFT 0200
 Roadstar 0713
 Rover 0713
 Saba 0710 0885 0115 0607
 Sabre 0455
 Sagem 0820 1114 1253
 Salora 0108
 Samsung 0863 1243 0853 1206 1017 1244 1293
 SAT 0501
 Sat Control 1300
 Sat Partner 0501
 Sat Team 0713
 Satcom 0605 0607
 Satec 0713 0834
 Satstation 1083
 Schneider 0710 1206
 Schwaiger 0605 0607 0885 1111 0132 1075
 SCS 0115 0299
 Seemann 0396
 SEG 0605 0114
 Seleco 0871
 Septimo 1205 0885
 Servi Sat 0136
 Siemens 0173
 Skantin 0713
 Skinsat 0501
 SKR 0713
 Sky 0847 0856 0887 1014
 SKY+ 1175
 Skymaster 0713 0605 1200 1075
 Skymax 0200
 SkySat 0605 0713
 SL 0132
 SM Electronic 0713 1200 1075
 Smart 0132 0299 1101 0882 0396 1113 0115
 0713
 Sony 0847 0853 0455 0292

SAT

SR	0132
Starland	0713
Strong	0879 0853 1159
STVI	0136
Sunsat	0713
Sunstar	0132
Tantec	0455
Tatung	0455
Tecatel	1200
TechniSat	0200 0292 1099 0501
Technosat	1206
Technowelt	0607 0885
Techsan	1017
Techwood	0114
Telasat	0605 0115 0607
Telecom	0713
Telefunken	0710
Teleka	0396 0501 0607 0834
Telesat	0605 0607
Telestar	0501 1099 0114 0200 0292
Teletech	0114
Televés	0455 0501 0132
Thomson	0455 1900 0713 0292 0853 0115 0607 1291 0820 0710 1046
Thorn	0455
Tokai	0200
Tonna	0455 0501 0713 0834
Topfield	1206
Toshiba	0455
TPS	0820 1253
Triasat	0501
Triax	0501 0115 0200 0396 0713 0853 0114 1296 1291 0132
Turnsat	0713
Twinner	0132 0136 0713
UEC	0879
Unisat	0200
Universum	0173 0607 0299 0115
Van Hunen	0299
Variosat	0173
Ventana	0200
VH-Sat	0299
Visiosat	0710 0713
Wetekom	0605 0501
Wewa	0455
Wisi	0173 0396 0299 0455 0501 0607 0834
Worldsat	0710 0114 0123
XCOM	0832 0123
XSat	0832 0713 0123
Xtreme	1300
YES	0887
Zehnder	1075 0114 0115
Zenith	0856
Zeta	
Technology	0200
Zinwell	1176

SAT

Cable Converters

Kabelsignalumwandler

Décodeurs de câble

Decodificadores

Conversores de Cabo

Decoder

Kabel Decoders

Alcatel	0896
Amstrad	1222
Austar	0012 0276
BT	0003
Canal Plus	0443
Comcrypt	0443
Decsat	0423
Filmnet	0443
Foxtel	1222
France	
Telecom	0451 0817 0896
General	
Instruments	0276
HyperVision	0619
Jerrold	0003 0276
Kabelvision	0003
Macab	0817
Melita	0003
MNet	0443 0019
Mr Zapp	0817
Noos	0817
NTL Cabletel	0276
Oak	0019
Ono	1068
Optus	0276 1060
Pace	1068 1060
Philips	0619 0451 0817 0286
PVP Stereo	
Visual	0003
Sagem	0817
Tele+1	0443
Teledanmark	0619
Telepiu	0443
Tudi	0286 0619
United Cable	0003
Visiopass	0451 0817

DVD

3DLAB	0539
A-Trend	0714
Acoustic	
Solutions	0730
AEI	0788 0770
Aiwa	0641 0695
Akai	0790 0788 0690 0713 0705
Akira	0699
Alba	0717 0699 0713 0723 0695
All-Tel	0790
Amitech	0770 0850
Amoisonic	0835
Amstrad	0713

CBL

DVD

AMW 0872
 Apex Digital 0672
 Audiosonic 0690
 AWA 0730
 Black
 Diamond 0713
 Blaupunkt 0717
 Blue Sky 0699 0695 0713 0672
 Boman 0783
 Brain Wave 0770
 Brandt 0651
 Bush 0699 0690 0717 0713 0818 0695 0831
 0723
 C-Tech 0768
 Cambridge
 Audio 0696
 Cambridge
 Soundworks 0696
 CAT 0699
 Celestial 0672
 Centrex 0672 1004
 Centrum 0713
 cineULTRA 0699
 Classic 0730
 Clatronic 0788
 Clayton 0713
 Coby 0730
 Conia 0835 0672
 Continental
 Edison 0872
 Crown 0770 0651 0690
 Cybercom 0831
 CyberHome 0714 0816
 Cytron 0651 0705
 Daewoo 0770 0705 0714
 Daewoo
 International 0872 0699
 Dansai 0770 0783
 Dantax 0723
 Daytek 0872
 Dayton 0872
 DEC 0699 0818
 Decca 0770
 Denon 0490 0634
 Denver 0699 0788
 Denzel 0665
 Diamond 0651 0768 0723
 Digihome 0713
 digiRED 0717
 Digitrex 0672
 DiK 0831
 Dinamic 0788
 DiViDo 0705
 DK digital 0831
 DMTECH 0783 0790
 Dragon 0831
 Dual 0665 0651 0713 0730 0783 0790 0831
 E-Boda 0723
 Eclipse 0723
 Electrohome 0770
 Elin 0770
 Ellion 0850
 Elta 0690 0770 0788 0790
 Emerson 0591 0705
 Enzer 0665
 Ferguson 0651
 Finlux 0741 0770 0783
 Funai 0695

DVD

GE 0717
 Global
 Solutions 0768
 Global Sphere 0768
 Go Video 0783
 GoldStar 0591 0741
 Goodmans 0651 1004 0790 0690 0783 0723 0818
 Graetz 0665
 Grundig 0539 0695 0651 0775 0705 0790 0713
 0723
 Grunkel 0770
 H&B 0818 0713
 Haaz 0768
 Hanseatic 0741
 Harman/
 Kardon 0702
 HCM 0788
 HDT 0705
 HE 0730
 Henß 0713
 Hitachi 0665 0573
 Hiteker 0672
 Hoher 0831
 Home
 Electronics 0730
 Hyundai 0783 0850
 Ingelen 0788
 ISP 0695
 JBL 0702
 Jeken 0699
 JMB 0695
 JVC 0623 0539 0503 1901
 Karcher 0783
 Kendo 0699
 Kenwood 0534 0490 0737
 Kiiro 0770
 Kingavon 0818
 Kiss 0665
 Koda 0818
 Koss 0651
 Lawson 0705 0768
 Lecson 0696
 Lenco 0699 0651 0770 0818
 Lennox 0690
 Lexia 0699
 LG 0591 0741 1906
 Lifetec 0651
 Limit 0768
 Loewe 0539
 LogicLab 0768
 Logix 0705 0783
 Lumatron 0705
 Luxman 0573
 Luxor 1004
 Magnavox 0503 0818
 Magnex 0723
 Manhattan 0705
 Marantz 0539
 Mark 0713
 Matsui 0651 0695
 MBO 0690 0730
 MDS 0699
 Medion 0651 0783 0831
 Memorex 0831
 Metz 0571 0525 0713
 MiCO 0723
 Micromaxx 0695
 Micromedia 0503 0539

DVD

Micromega 0539
 Microsoft 0522
 Minato 0752
 Minax 0713
 Minoka 0770
 Mitsubishi 0713
 Mizuda 0818
 Monyka 0665
 Mustek 0730
 Mx Onda 0651 0723
 NAD 0741
 Naiko 0770
 Neufunk 0665
 Nordmende 0831
 Noriko 0752
 Okano 0752
 Omni 0690 0699
 Onkyo 0503 1612
 Optimus 0571 0525
 Orava 0818
 Orion 0695
 Oritron 0651
 P&B 0818
 Pacific 0768 0790 0713 0831
 Palladium 0695
 Palsonic 0835 0672
 Panasonic 0490 1908 1909 1910 1905 1010
 Panda 0783
 Philips 0539 0646 0503 1914
 Phonotrend 0699
 Pioneer 0571 0525 0631 1900 1902
 Pointer 0770
 Proline 0651 0686 0672 0790 1004
 Proscan 0522
 Prosonic 0699
 Provision 0699
 Radionette 0741
 Raite 0665
 RCA 0522 0651
 REC 0490
 Red Star 0770 0788
 Reoc 0768 0752
 Revoy 0699
 Roadstar 0699 0690 0713 0818
 Ronin 0872
 Rotel 0623
 Rowa 1004
 Saba 0651
 Sabaki 0768
 Salora 0741
 Sampo 0752
 Samsung 0573 0490 1932
 Sansui 0695 0768 0723 0770
 Sanyo 0695 0790
 Scan 0705 0835 0850
 ScanMagic 0730
 Schaub
 Lorenz 0788 0770
 Schneider 0651 0783 0705 0790 0788
 Schwaiger 0752
 Scientific Labs 0768
 Scott 0651 0672
 SEG 0665 0713 0768
 Shanghai 0672
 Sharp 0630 0752 0695
 Sherwood 0717 0741
 Shinco 0717
 Silva 0788

SilvaSchneider 0831
 Singer 0690 0723
 Skymaster 0730 0768
 Slim Art 0770
 SM Electronic 0730 0768 0690
 Smart 0705 0713
 Sony 0533 0573 1903 1904
 Soundmaster 0768
 Soundmax 0768
 Soundwave 0783
 Standard 0651 0768
 Starmedia 0818
 Sunwood 0788
 Supervision 0730 0768
 SVA 0672
 Synn 0768
 Tattung 0770
 Teac 0717 0741 0571 0591 0768 0790 1930
 Technics 0490 1905 1908 1909 1910
 Technika 0770
 Techwood 0713
 Tensai 0690 0651
 Tevion 0651 0768
 Theta Digital 0571
 Thomson 0551 0522
 Tokai 0665 0788
 Tokiwa 0705
 Toshiba 0503
 TRANS-
 continents 0872
 Umax 0690
 United 0788 0730 0790
 Universum 0741 0713 0591
 Venturer 0790
 Vieta 0705
 Voxson 0730 0831
 Walkvision 0717
 Welkin 0831
 Wesder 0699
 Wharfedale 0686 0696 0723 0752
 Windy Sam 0573
 XBox 0522
 XLogic 0770 0768
 XMS 0788
 Yamada 1004
 Yamaha 0490 0539 0646
 Yamakawa 0665
 Yukai 0730
 Zenith 0503 0591 0741

DVD

DVD