



### Setting up your device

Page 10

For each device you want to control, perform the following instructions:

NOTE: to control a Cable Box or DBS receiver, program the SAT key.

To control a DVD player, program the VCR key.

1. Find your device code in the “Manufacturer’s codes” section (page 22). Codes are listed by brand name. The most popular code is listed first.
2. Turn on a device by hand and, if applicable, insert media. (e.g. cassette or disk).

NOTE: Please read steps 3-5 completely before proceeding. Highlight or write down the codes and device you wish to program before moving on to step 3.

3. On the Spectrum, press the corresponding device key once (e.g. TV or VCR or SAT) for the device you like to set up.
4. Press and hold SETUP until the LED blink twice, then release SETUP.
5. Use the “Manufacturer’s codes (page 22) to locate the type of device and Brand name and then enter the first four-digit code for your device. If performed correctly, the LED will blink twice.

NOTE: if the LED emits a long blink, the code is invalid. Repeat step 3 through 4 and try entering the same code again.

6. Aim your Spectrum Keyboard at the device and press POWER once. The Device should turn off, if it does not, repeat steps 3-4, trying each code for your brand until you find one that works. If still does not work, try the search Method on page xx.

NOTE: if the device does not have a POWER key, press the play key.

6. Repeat steps 1 through 5 for each device you want your Spectrum Keyboard to control. For future reference, write down each working device Code in boxes next site.

Page 8

Page 9

**Device type**

**Code**

---

1.	_____	0000	0000	0000	0000
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____

### Search method

**If any of your device do not respond to your Spectrum Keyboard after trying All of the codes listed for your brand. Or if your brand is not listed at all, try Searching for your code.**

**For example, to search for a code for your TV:**

1. **turn on your TV.**
2. **On your Spectrum Keyboard, press TV once**
3. **Press and hold SETUP until the LED blink twice, then release SETUP.**
4. **Enter 991, the LED will blink twice.**
5. **Aim the remote control at the TV and slowly alternate between pressing POWER and TV. Stop when the TV turns off.**

NOTE: in the search mode, your Spectrum keyboard will send IR code from its library to the selected device, starting with the most popular code first. OTHER valid functions then POWER are; CH+, VOL+, MUTE, PLAY and STOP.

6. Press SETUP once to store the code.

To use the search method for another device, repeat steps 1 through 6, pressing the appropriate key (e.g VCR, or SAT)during step 1.

The LED will blink three times to indicate that the search cycle has been completed

Page 9

Page 10

### Code blink-out, Re-assigning device key

#### Code blink-out

If you have set up your Spectrum keyboard using the SEARCH METHOD, you may need to find out which four-digit code is operating your equipment:

Example: to find out which code is operating your TV:

1. Turn on your TV.
2. On your Spectrum keyboard, press TV once.
3. Press and hold SETUP until the LED blinks twice, then release SETUP.
4. Enter 990 . The LED will blink twice.
5. For the **first digit** of your four-digit code. Press 1 and count all the red blinks. If there are no blinks, the digit is "0".
6. For the **second digit** of your four-digit code. Press 2 and count all the red blinks. If there are no blinks, the digit is "0".
7. For the **third digit** of your four-digit code. Press 3 and count all the red blinks. If there are no blinks, the digit is "0" .
8. For the **fourth digit** of your four-digit code. Press 4 and count all the red blinks. If there are no blinks, the digit is "0". Now you have your four-digit code.

To blink back the code for your other devices press the appropriate (e.g. VCR or SAT)

device key during step 1.

Make sure to write down your device code in the boxes on page 5 for easy future reference.

#### Re-assigning device keys

your Spectrum keyboard can be set up to control any combination of four home entertainment devices.

By following these instructions, you can re-assign or duplicate a device key onto an unused device key.

To program a second television on the SAT key, you need to change the SAT key into a TV key, so press:

Page 10

#### Reassigning device keys, Locking VOLUME +/- to a certain mode

Page 11

1. Press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 992, The LED will blink twice.
3. Press TV followed by SAT. The LED will blink twice  
The SAT key has now become a second TV key.
4. Now enter the SET-UP code for your second television by pressing:  
SAT -> SETUP -> (4-digit TV code (see SETTING UP YOUR DEVICE)).

To program a second video recorder on the SAT key, you need to change the SAT key into a VCR key. so press:

1. Press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 992. The LED will blink twice.
3. Press VCR followed by SAT. The LED will blink twice.  
The SAT key has now become a second VCR key.
4. Now enter the SET-UP code to your second VCR by pressing:  
SAT -> SETUP.. (4 digit VCR code (see SITTING UP YOUR DEVICE)).

#### Locking VOLUME +/- to a certain mode

Your Spectrum keyboard is set to control volume of a device through your TV while in the Keyboard, TV, VCR or SAT mode.

If your TV is not remote controllable, or if you would like the volume to be controlled by different component, you can change the Volume Lock setting to control volume through a non-associated mode (e.g. through the video recorder in the TV mode).

#### To lock VOLUME +/- to SAT mode:

- 1, Press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 993 and then press SAT once. The LED will blink twice.
3. Now, whenever you press VOL+, VOL- or MUTE on your Spectrum keyboard, volume will be controlled by your Satellite Receiver or Cable Converter.

Page 11

## **Locking VOL +/- to a certain mode, Locking BOUQUET / CH +/-**

Page 12

To lock VOLUME +/- to TV mode:

1. Press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 993 and then press TV once The LED will blinks twice.
3. Now, whenever you press VOL+, VOL- or MUTE on your Spectrum keyboard, volume will be controlled by your TV.

To lock VOLUME +/- to VCR mode:

1. Press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 993 and then press VCR once. The LEO will blink twice.
3. Now, whenever you press VOL+, VOL- or MUTE on your Spectrum keyboard, volume will be controlled by your VCR.

To unlock volume lock:

1. Press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 993 and then press VOL+ once. The LED will blink twice.  
The VOL+, VOL- or MUTE on your Spectrum keyboard is no longer assigned to a specific device.

Locking BOUQUET/CH+/-

By activating this feature, your Spectrum keyboard will only allow access to the channel control capabilities of your cable converter or satellite receiver. This will guarantee that you do not inadvertently change the channel on your TV or VCR.

Note: when channel Control lock is activated, BOUQUET / CH+, CH-, and LAST will become locked to them Cable mode.

To activate BOUQUET/CH+/-lock:

1. Press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 996.the LED will blink twice.

Page 12

3. Press CH+ once, The LED will blink twice.

Page 13

Now, regardless of what mode you select (e. g. KB, TV, VCR, etc.), only the channel control capability of your cable converter will be accessible.

To de-activate BOUQUET /CH+/- lock:

1. Press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 996. The LED will blink twice.

3. Press CH- once. The LED will blink twice.

Your Spectrum keyboard will again provide TV and VCR channel control capabilities while in the TV and VCR modes.

## MACROS

Your Spectrum keyboard can be setup to perform repetitive, time-consuming operations for easy, convenient access through the press of a single key.

Macro keys are ideal for home theater operations, setting a favorite channel, adding to multiple component uses, guide steps, or other multiple functions you would like to control with one key press.

NOTE: Macros can only be stored on the M1 and M2.

For the optimum in individual customization, you can define and program a sequence of events, since each macro key can hold up to 15 key presses.

Below are a few examples to get you started.

NOTE: Programming a new macro Over an existing one will erase the original macro.

### Example 1 - Programming a "Favourite Channel"

With so many channels available through your cable system or satellite provider, you can program a macro that directly selects a favorite channel with one key press. For example, let's assume your favorite programs are on channel 71. Use the following instructions to program a macro key for direct access of this channel:

1. Press and hold SETUP until the LED blinks twice, then release SETUP.

Page 13

2. Enter 995. The LED will blink twice.

Page 14

3. Select an open macro key (e.g, M1) and press it once.

NOTE: Make sure that Shift, Caps lock, Num lock and Scroll lock are not depressed or active when selecting an open macro key. Doing so will add the modifier key to your selection.

4. Press SAT once.

NOTE: For proper playback, always start a macro program with a mode key.

5. Enter the channel number 71.

NOTE: If you have access to over 100 channels, enter in 071.

6. Press and hold SETUP until the LED blinks twice, then release SETUP.

Now when you press the programmed macro key (e.g. M1), you will instantly see channel 71 on your TV set.

NOTE: Your Spectrum keyboard will remain in the mode as last selected by playing back a macro. Simply press a desired mode key once to change modes.

#### Example 2 - programming a macro with channel selection

A macro key can be programmed to turn on and off your equipment, As an example, you want your child to be able to easily turn on the equipment and select a favorite premium channel. You can setup a sequence on one macro key that will turn on the TV and tune it to channel 3, and then turn on the Satellite Receiver and tune it to a desired channel (e.g. 11).

1. Press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 995. The LED will blink twice.
3. Select an open macro key (e.g, M1) and press it once.

NOTE: Make sure that Shift, Caps lock, Nums lock and Scroll lock are not depressed or active when selecting an open macro key. Doing so will add the modifier key to your selection.

---

Page 14

- 
4. Enter the following sequence:

TV -> POWER •> 03 [or 003 if you have access to over 100 channels) ->  
SAT -> POWER •> 11 (or 011 if you have access to over 100 channels)

5. Press and hold SETUP until the LED blinks twice, then release SETUP. Now when you press the programmed macro key (e.g. M2], the TV will turn on and tune to channel 03 and then the Satellite Receiver will turn on and tune to channel 11.

NOTE: your Spectrum keyboard will remain in the mode as last selected by playing back a macro, Simply press a desired mode key once to change modes.

#### Clearing a macro key

1. On the remote control, press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 995, THE LED will blink twice
3. Select a programmed macro key you want to clear and press it once.
4. Press and hold SETUP until the LED blinks twice, then release SETUP.

---

Page 15

### Troubleshooting

---

Page 16

Problem	Solution
-LED does not blink when you press a key.	-Replace the batteries with three (3) new AA alkaline

	batteries (see page 5)
-LED blinks when you press a key, but home entertainment device does not respond.	- Make sure your Spectrum keyboard is aimed at your home entertainment device and that it is within 15 feet of the device you are trying to control.
-Your Spectrum keyboard does not control home entertainment devices or commands are not performing properly.	-Try all listed codes for the device brand being set up. Make sure all devices can be operated with an infrared remote control.
-TV/VCR combo does not respond properly	-Use the VCR codes for your brand Some combo units may require both a TV code and a VCR code for full operation (see page 8)
-No volume on a second TV.	-Follow instructions in Changing Volume Lock (see page 12]
-BOUQUET /CH+,CH- and LAST do not work for your RCA TV.	-Due to RCA design (1983-1987), only the original remote control will operate these functions.
-Changing channels does not work properly.	-If original remote control required pressing ENTER to change channels, press ENTER on your Spectrum keyboard after entering a channel number.
-Tried "Search Method and still" Could not find a working code	-Try "Search Method" again after clearing out the device key as follows: Press and hold ENTER until the LED blinks twice, then release. Next enter 992. Then press and release the device key to be cleared twice. <b>Page 16</b>

<p>- Remote control does not turn on Sony or Sharp TV/VCR, Combo.</p>	<p><b>Page 17</b></p> <p>- For power on, these products require programming TV codes on your Spectrum keyboard, For Sony, use TV code 0000 and VCR code 0032. For Sharp, use TV code 0093 and VCR code 0048.</p>
---	--

**About repetitive Stress injury**

**WARNING!** Continuous use of your Spectrum keyboard may cause repetitive stress injuries or related injuries, Please read the important information below to reduce your risk of injury, If you experience any aching, numbing, or tingling in your arms, wrists, or hands, you should properly consult a qualified health professional.

Some studies have suggested that long periods of typing, an improper work environment, incorrect work habits, and/or personal health problems may be linked to injuries. These injuries include carpal tunnel syndrome, tendinitis, and tenosynovitis.

The following guidelines may help reduce straining your arms, wrists and hands when typing. Also, review the accompanying illustrations to visualize correct and incorrect positioning of arms, wrists and hands.

**Using the Keyboard properly**

- When typing, place your elbows near your body in a relaxed position.
- Place your thumbs and fingers in a relaxed, natural position,
- Always maintain a straight wrist position, as shown below.



Correct wrists straight

Incorrect! Wrists angled.

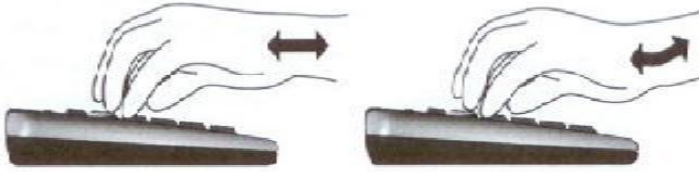
\_\_\_\_\_ **Page 17**

**Using the keyboard properly**

\_\_\_\_\_ **Page 18**

- . Avoid resting your hand on the table or palm rest while you are typing.
- . Use a light touch when typing on the keyboard.
- . Avoid bending, arching, or angling your wrists as shown below.





correct wrists level

incorrect wrists arched.

### Proper posture



**When using your Spectrum keyboard on your lap, sit in an upright, relaxed posture and avoid slouching forward or leaning too far back. Also keep your forearms and wrists parallel to the floor.**

\_\_\_\_\_ Page 18

**Spectrum care, Specifications, FCC notice**

\_\_\_\_\_ Page 19

### Spectrum care

**Your Spectrum keyboard is housed in a high-impact plastic case and does not require any routine maintenance. If desired, use a soft cloth to remove any fingerprints or dust, Clean the keys by gentle vacuuming.**

**IMPORTANT: Do not use any cleaning products (including those containing alcohol) to clean your Spectrum keyboard, Keep drinks away from your Spectrum keyboard to avoid accidentally spilling a liquid onto the keyboard.**

### Specifications

**Power requirements: (tree AA Batteries [not included])**

**Dimensions: 16" W x 8" H X 1,25 D**

### FCC notice

**This equipment has been tested and found lo comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rule, these limits are designed to provide reasonable protection against harmful interference in residential installation, This equipment generates, uses, and can radiate sans-fil**

frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to sans-fil communications. However, there is no guarantee that interference will not occur in a particular installation. if this equipment does cause harmful interference to sans-fil or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet On a different circuit from the receiver. Consult the dealer or an experienced sans-fil/TV technician for help.

**NORTE:** If serial or parallel ports are configured, a filtered/shielded serial or parallel cable is recommended to minimize EMI and ensure FCC B compliance.

**This device complies with Part 15 of the FCC rules, Operation is subject to the following two conditions:**

\_\_\_\_\_ Page 19

Nothing important in the other page.

\_\_\_\_\_ Page 22

## Codes for TV

A.R. Systems	0067 0586	Alkos	0611 0066 0609
Accent	0067 0586	Allorgan	0065
Accuphase	0586	Allstar	0236 0324 0247
Acec	0042	Amplivision	0067 0586
Adcom	0655		0247 0430 0400
Admiral	0123 0393 0448	Amstrad	0350
	0117 0193 0294		0039 0546 0294
Adyson	0247 0246		0401 0248 0067
AEA	0067 0586		0586 0463 0442
Agashi	0246 0294 0247	Anam	1067 0611
AGB	0546	Anam National	0067 0586 0039
Agef	0117	Anex	0067 0586 0680
Aiko	0039 0067 0586	Anglo	0451
	0246 0401 0065	Anilech	0039 0294
	0463 0102 0391		0039 0294 0067
	0221 0294 0247	Ansonic	0586 0312 0132
Aim	0067 0102 0442		0400 0067 0586
	0586		0039 0698 0404
Aiwa	0731		0193 0322 0132
Akai	0391 0238 0401		0441 0289 0277
	0067 0463 0221	Apollo	0042 0458 0134
	0065 0039 0102	Are en Ciel	0503

	0248 0744 0193	Arcam	0429 0139 0226
	0546 0745 0632	Ardem	0246 0429 0247
	0586 0578 0611		0516 0744 0067
	0510 0247 0661	Arislona	0586
	0246 0294 0478	Arthur Martin	0586 0067 0042
	0208 0407 0636	ASA	0193 0430
Akiba	0248 0312 0485		0135 0376 0100
	0067 0586 0324	Asberg	0134 0117
Akilo	0067 0586	Asora	0067 0586 0132
Akura	0067 0586 0698	Astra	0039
	0442 0039 0248	Asuka	0067 0586
	0312 0294		0248 0247 0246
Alaron	0209 0246	Atlantic	0294 0312
Alba	0039 0448 0400		0067 0586 0246
	0265 0401 0698	Atori	0236 0350 0289
	0067 0586 1067	Auchan	0039
	0385 0248 0246		0193 0430
	0277 0193 0517		
<b>Page 23</b>			
Audiosonic	0039 0067 0404 0586	.Bradnt Elect.	
	0139 0744 0745 0247	Brinkmann	
	0400 0367 0294 0248		
	0516 0458	Bionvega	
Audioton	0247 0516 0400	Brilannia	0246 0247
	0294 0458	Brother	0294
Autovox	0117 0236 0574	Bruns	0117 0458
	0379 0247 0277	BSR	0193 0324 0391
AWA	0041 0066 0039	BTC	0248
	0187 0404 0442	Bush	0698 0248 0193
	0067 0586 0246		0379 0039 0066
	0636 0247 0138		0067 0401 0265
	0294		0312 0385 0393
Axxent	0039		0404 0549 0294
Baird	0139 0223 0373		0391 1067 0517
	0220 0102 0103		0238 0247 0728
	0247 0238		0611 0324 0586
Bang & Olufsen	0595 0117		0744
Barco	0410 0193	Canton	0248
Basic Line	0404 0067 0193	Capsonic	0294
	0698 0586 0039	Carad	0640 0067 0586
	0248 0597 0312		0698
	0247 0485	Carena	0485 0067 0586
Bastide	0247	Carrefour	0066 0100 0067
Baur	0333 0225 0542		0586
	0067 0586 0221	Carver	0200
	0391 0574 0379	Cascade	0039 0067 0586
	1535 1040	Casio	0067 0586 0193
Bazin	0247		0379
Beaumarck	0208	Calhay	0067 0586

Beko	0516 0065 0458	CCE	0067 0586 0247
	0744 0400 0067	Cenrum	1067
	0586 0636 0745	Cenlurion	0067 0586
Beon	0067 0586 0448	Cenlury	0117 0277 0268
Berthen	0698	CGE	0104 0448 0277
Best	0367 0400 0451		0400 0193 0429
Bestar	0067 0586 0400	Cimline	0039 0265 0248
	0404	Cilizen	0090
Bestar-Daewoo	0404	City	0039
Binatone	0247	Clarivox	0448 0067 0586
Black Diamond	1067 0586		0100 0132
Black Panther	0132	Clalronic	0067 0400 0401
Black Star	0277		0744 0248 0294
Blacktron	0312		0586 0247 0277
Blackway	0312 0248		0039 0132 0350
Blaupunkt	0221 0225 0357		0609
	0478 0485 0200	Claylon	1067
Blue Sky	0067 0744 1067	CMS	0246
	0517 0698 0745	CMS hightec	0247
	0586 0248 0312	Concorde	0039
	0485	Condor	0350 0067 0586
Blue Star	0312		0400 0246 0039
Bondstec	0277		0312 0132 0277
Boots	0247 0039		0448 0441 0193
Bosch	0350 0357		0294
BPL	0067 0586 0312	Conrad	0067 0586
Brandi	0655 0139 0429	Conlec	0246 0039 0187
	0226 0317 0365		0041 0066 0294
	0501 0373		0067 0586
		Continental Edison	0139 0226 0429
<b>Page 24</b>			

	0317 0517	Dunai	0574 0193
Cosmel	0039 0367 0067	Dux	0067 0586 0042
	0586	Dynatron	0067 0586 0042
Crosley	0117 0277 0104	E-Elite	0248
	0193	Edison-Minerva	0517
Crown	0039 0400 0516	Elbe	0465 0268 0289
	0067 0586 0517		0322 0400 0193
	0744 0636 0745		0067 0586 0248
	0451 0448 0609		0221 0441 0640
	0238 0369		0247 0546 0391

CS Electronics	0246 0248 0277	Elbe-Sharp	0546
cts	0277	Elcit	0117 0277 0546
Curtis Mathes	0090 0123 0196		0132 0193
Cybertron	0248	Elekta	0039 0067 0586
D-Vision	0067 0586		0294 0312
Daewoo	0664 0404 0529	ELG	0067 0586
Dansai	0067 0586 0039	Elin	0246 0067 0586
	0246 0248 0247		0135 0134 0578
	1167		0391 0478 0379
Dainichi	0248 0246		0193 0039
Dansai	0067 0586 0294	Elite	0248 0067 0586
	0065 0246 0039		0350
	0066 0247	Elman	0132
Dansette	0442	Elta	0039 0294 0246
Dantax	0400 0516 0744	Emco	0277
	0636 0745	Emerson	0208 0117 0209
Datsura	0238		0277 0067 0586
Dawa	0067 0586		0401 0100 0312
daytron	0039 0404 0067		0350 0391 0516
	0586		0400 0193 0351
De graaft	0238 0074 0193	Emperor	0312
	0578 0393	Enzer	0726
Deca	0102 0546 0067	Erres	0067 0586 0042
	0586 0247 1167	ESC	0067 0586 0247
Deitron	0067 0586 0404	Estele	0193
	0248	Etron	0067 0586 0039
Denko	0294		0193
Denver	0067 0586 0636	Eurofeel	0294 0247
DER	0223 0220	Euroman	0246 0294 0067
Desmet	0350 0067 0586		0586 0247 0451
	0039 0117		0400
Diamante	0067 0586	Europa	0067 0586
diamond	0294 0728 0726	Europhon	0067 0546 0132
digiline	0067 0586		0193 0247 0586
digitor	0067 0586		0277 0246
digivision	0391	Excel	0067 0586
Dik	0067 0586	Expert	0236 0430 0289
Dixi	0039 0067 0586		0193
	0277 0247 0117	Exquisit	0067 0586 0277
Domeos	0698	Family Life	0067 0586
Domland	0424	Fenner	0404 0039
Doric	0379	Ferguson	0103 0655 0317
Dts	0039		0220 0365 0268
Dual	0574 0379 0247		0223 0139 0590
	0373 0549 0067		0067 0586 0065
	0586 0289 0424		0373 0134 0138
	0429 0333 0193		0391 0501
	0561	Fidelity	0193 0542 0393
Dumont	0117 0134 0132		0067 0586 0401
	0247 0100 0102		0442 0561 0223

<b>PAGE 25</b>			
	0246 0294 0574		0248 0393
Filsai	0247	GE	0373 0208 0312
Finlandia	0238 0376 0578		0590 0317 0139
	0391 0193 0393		0365
	0102 0317 0373	Geant Casino	0193 0430
	0075	GEC	0193 0391 0379
Finlux	0135 0134 0067		0067 0546 0586
	0586 0744 0376		0102 0247
	0247 0102 0193	Geloso	0277 0039 0393
	0546 0745 0100		0193 0404
	0117 0209 0132	General	0139 0317 0501
	0441 0661 0522	General Electric	0373 0317
	0510 0503 0448	General Technic	0039
	0636	Genesis	0039
Firstline	0067 0586 0404	Genexxa	0248 0067 0586
	0698 0744 0193		0442 0193 0039
	0039 0324 0351	Giant	0247
	0246 0277 0132	Goldfunk	0698
	0247 0441 0574	Goldhand	0246
	0379 0561 0268	Goldline	0367
	0102 0265 0238	GoldStar	0067 0039 0400
	0391		0320 0407 0247
Fisher	0134 0247 0066		0208 0277 0246
	0238 0400 0585		0586 0193 0391
	0075 0117 0187		0139 0393 0636
	0391 0193 0333		0074
	0574 0379 0102	Gooding	0517
Flint	0067 0586 0640	Goodmans	0664 0404 0067
	0102 0248 0485		0529 0586 1067
	0294		0698 0066 0294
FNR	0132		0102 0546 0039
Forgestone	0223		0320 0209 0517
Formenti	0193 0067 0586		0401 0373 0265
	0516 0246 0117		0065 0510 0590
	0350		0247 0365 0248
Formenti-Phoenix	0246 0350	Gorenje	0400 0451
Fortress	0123 0117	GPM	0248
Fraba	0067 0586 0400	Gradiente	0200 0067 0586
	0561	Graetz	0391 0401 0193
Friac	0039 0067 0586		0067 0369 0586
	0132 0451 0400	Granada	0067 0586 0430
	0529 0685		0256 0386 0042
Frontech	0277 0294 0379		0075 0102 0138
	0393 0478 0247		0238 0247 0066
	0039 0193		0369 0546 0503
Fujitsu	0209 0236 0102		0365 0590 0193
	0132 0247 0193		0393 0255 0373
	0039 0713 0067		0578
	0586 0391 0289	Grandin	0067 0586 0039

Fujitsu General	0039 0247 0236		0193 0640 0744
	0193		0745 0698 0404
Funai	0698 0294 0209		0350 0312 0248
	0324 0333 0442		0485 0430 0609
Future	0067 0586	Gronic	0132 0247 0193
Galaxi	0132 0067 0586	Grundig	0225 0221 0517
	0391 0193		0100 0736 0067
Galaxis	0400 0448 0067		0586 0617 0039
	0132 0586		0066 0473 0400
Galeria	0039	Grunpy	0209
GBC	0193 0039 0404	Haier	0728 0294
<b>PAGE 26</b>			

Halifax	0294 0246 0247		0268
Hampton	0246 0247	Iberia	0067 0586
Hanimex	0324 0248	ICE	0294 0067 0401
Hanseatic	0067 0586 0529		0039 0586 0248
	0549 0379 0193		0247 0246
	0391 0322 0574	Ices	0248 0246
	0312 0424 0350	Icos	0042
	0664 0458 0400	let	0067 1167 0586
	0039 0324 0247	Imperial	0067 0193 0400
	0117 0407		0104 0586 0441
Hantarex	0039 0067 0586		0391 0379 0448
	0132 0546		0277 0226 0561
Hantor	0067 0586	Indiana	0067 0586
Harley Davidson	0209	Ingelen	0517 0640 0744
Harwood	0039 0442 0067		0193 0391
	0586	Ingersoll	0039
Hauppauge	0067 0586	Inno Hit	0039 0102 0067
HCM	0039 0442 0067		0586 0248 0320
	0586 0247 0248		0247 0546 0277
	0448 0312 0294		0132 0312
Hedzon	0586 0067	Innovation	0549 0067 0586
Hema	0247 0039	Interactive	0067 0586 0042
Hemmermann	0379 0574		0117 0542 0357
Hifivox	0139 0226 0429		0193 0391 0400
Higashi	0246		0139
Highline	0294 0067 0586	Interbuy	0039 0067 0294
Hikona	0248		0277 0542 0586
Hinari	0238 0067 0586	Interfunk	0067 0586 0042
	0039 0248 0066		0117 0542 0357
	0209 0193 0385		0193 0391 0400
	0473 0517 0265		0139 0379 0277
	0324 0294	Internal	0067 0586 0529
Hisawa	0312 0248 0430		0404
	0485 0640	International	0246
Hit	0117	Intervision	0312 0247 0485
Hitachi	0255 1255 0379		0067 0401 0407

	0066 0386 0074		0549 0478 0516
	0138 0503 0193		0400 0424 0517
	0373 0608 0226		0248 0132 0193
	0247 0224 0546		0294 0277 0039
	0102 0529 0067		0586
	0586 0139 0393	Irradio	0039 0067 0586
	0578 0749 0664		0248 0277 0320
	0208 1167 0135		0401
	0522 0391 0542	Isukai	0248 0067 0586
	0510		0312 0485
Hitachi Fujian	0138 0255	ITC	0247 0350
Hitsu	0039 0485 0248	ITS	0067 0401 0248
	0640		0312 0294 0246
HMV	0117		0039 0586
Hornyphone	0067 0586 0042	ITT	0193 0510 0379
Hoshai	0248 0485		0391 0503 0578
Huanyu	0404 0246		0597 0223 0376
Hygashi	0247 0246		0369 0238 0209
Hyper	0039 0246 0247		0574 0640
	0277	ITT Nokia	0391 0578 0193
Hypersonic	0391		0503 0510 0379
Hypson	0067 0586 0744		0376 0238 0209
	0745 0294 0247		0369 0597 0636
	0312 0485 0430		0640 0661 0393
<b>PAGE 27</b>			
ITV	0294 0067 0586		0404 0586 0134
	0277 0404	Lenoir	0039
Jean	0066	Lesa	0277
JEC	0065	Levis Austria	0067 0586
JMB	0067 0529 0664	Leyco	0294 0102 0067
	0404 0586 0473		0586 0324 0609
Jocel	0742	LG	0067 0400 0039
Jubilee	0586		0407 0247 0586
JVC	0683 0220 0066		0744 0277 0246
	0223 0401 0248		0320 0193 0208
	0636 0448		0391 0636 0139
Kaisui	0248 0312 0067	Liesenk & Tter	0357 0067 0586
	0586 0246 0485	Liesenkotter	0067 0357 0042
	0247 0039		0586
Kamp	0246	Lifetec	0067 0039 0549
Kapsch	0193 0391 0236		0404 0698 0542
	0289 0134		0685 1067 1167
Karcher	0067 0586 0451		0586 0248 0294
	0400 0640 0193	Lloyd's	0039
	0312 0132 0294	Loewe	0542 0067 0586
Kathrein	0586 0067		0685 0400 0117
Kawa	0401		0322
Kawasho	0246	Logik	0041 0090 0728
KB Aristocrat	0193		0067 0223 0586



Kendo	0640 0067 0586		0401
	0193 0549 0542	Logix	0698
	0400 0407 0393	Luma	0067 0393 0236
	0458 0441 0132		0193 0441 0586
	0265 0277		0404 0039 0289
Kennedy	0193 0236 0465	Lumatron	0393 0236 0067
Kenwood	0135		0586 0193 0289
Kingsley	0246		0391 0247 0294
Kiton	0586 0067		0103
Kneissel	0067 0400 0640	Lux May	0067 0039 0586
	0441 0404 0529		0611
	0586 0465 0289	Luxman	0609
	0322 0268	Luxor	0224 0320 0393
Kolster	0067 0586 0132		0510 0522 0379
	0379		0391 0238 0386
Konka	0067 0586 0401		0578 0193 0376
	0744 0448 0248		0503 0209 0247
Kontakt	0517		0661
Korpel	0067 0586	LXI	0208
Korting	0117 0451 0400	Madison	0067 0586
	0350	Magnadyne	0117 0277 0546
Kosmos	0067 0586		0132 0193 0574
Kotron	0442 0294	Magnafon	0546 0132 0246
Koyoda	0039		0103
Kraking	0268	Magnavox	0067 0586 0066
Kriesler	0042		0209
KTV	0247	Magnum	0744 0067 0586
Kuba	0379 0193		0745
Kuba Electronic	0333 0379 0193	Mandor	0294
Kyoshu	0442 0448 0294	Manesth	0067 0586 0265
Kyoto	0193 0246 0247		0247 0294 0350
LaSAT	0516 0400		0065 0324 0193
Leader	0039		0393
Lecson	0067 0586	Manhattan	0067 0586 0698
Lemair	0441		1067 0193
Lenco	0067 0039 0193	Marantz	0067 0586 0442
<b>PAGE 28</b>			
Marelli	0117		0542 0193 0246
Mark	0067 0586 0247		0391 0478
	0246 0404 0039	Multibroadcast	0223
	0744 0745	Multistandard	0132
Masuda	0248 0401 0039	Multitec	0067 0586 0516
	0294 0067 0247		0698 1067
	0586	Multitech	0379 0039 0393
Matsui	0067 0586 0517		0516 0067 0400
	0039 0265 0041		0586 0247 0246
	0385 0102 0066		0277 0132 0294
	0247 0324 0401	Murphy	0134 0246 0102
	0463 0473 0393		0193
	0609 0485 0193	Musikland	0067 0248 0277

	0379 0546 0065		0586
	0238 0075 0225	Myryad	0586 0067
	0221 0365 0574	NAD	0196 0208 0391
Matsushita	0680		0193
Mediator	0067 0586 0042	Naiko	0067 0636 0586
Medion	0067 0698 0549	Nakimura	0404 0067 0586
	0542 0586 1167	Naonis	0393 0193
	0728	NAT	0256
Megas	0640	National	0256
Megatron	0208	NEC	0200 0066 0350
Melectronic	0376 0067 0542		0485 0039 0404
	0139 0373 0277		0247 0067 0586
	0135 0134 0404		0041 0734 0529
	0039 0247 0510	Neckermann	0067 0221 0400
	0522 0246 0441		1535 1040 0586
	0379 0193 0317		0193 0357 0448
	0586 0664 0391		0379 0117 0277
	0221 0225		0247 0441 0350
Melvox	0430		0393 0542
Memorex	0039 0208 0090	NEI	0067 0586 0367
Memphis	0367 0102 0039		0401 0193
Mercury	0067 0039 0586	Nesco	0277 0209
Metz	0225 0477 0221	Netsat	0067 0586
	0397 0067 0117	Network	0367
	0586 0617 0698	Neufunk	0067 0039 0586
	1067		0640 0248 0312
MGA	0208 0067 0586		0744
	0248 0134	New Tech	0067 0039 0586
Micromaxx	0067 0586 0698		0373 0247 0478
	1067	New World	0248
Minato	0067 0586	Nicamagic	0246
Minerva	0517 0225 0100	Nikkai	0102 0248 0067
	0221 0546 0138		0586 0247 0294
Minoka	0442 0067 0586		0065 0367 0246
Mistral Electronics	0223		0039 0066
Mitsubishi	0138 0123 0542	Nikko	0208
	0067 0208 0117	Nobliko	0132 0100 0246
	0066 0223 0586	Nogamatic	0429 0139 0226
	0238	Nokia	0391 0193 0510
Mitsuri General	0193		0379 0578 0522
Mivar	0322 0320 0321		0503 0369 0238
	0400 0246 0639		0404 0661 0636
	0546 0247		0376 0209 0350
Monaco	0039		0597 0640 0139
Morgan's	0067 0586	Nordic	0247
Motorola	0123	Nordmende	0139 0317 0429
MTC	0090 0400 0379		0226 0373 0590
			0225 0067 0586
<b>Page 29</b>			<b>0365 0193 0501</b>
Norfolk	0193	Panasonic	0680 0256 0391

Normerel	0067 0586		0397 0546 0067
Novak	0042		0586 0193 0578
Novatronic	0067 0135 0404	Panavision	0067 0441 0586
	0561 0586	Pathe Cinema	0193 0268 0246
Nurnberg	0193 0391		0430 0350 0322
Oceanic	0597 0193 0430		0379 0400
	0391 0324 0238	Pathe Marconi	0139 0226 0429
	0503 0578 0510	Pausa	0039
Odeon	0294	Perdio	0102 0350 0193
Okano	0400 0067 0586		0067 0246 0312
	0294 0102 0039		0586
Omega	0294	Perfekt	0067 0586
Onwa	0401 0632 0248	Pershin	0430
	0463 0611 0132	Philco	0117 0104 0448
Opera	0067 0586		0277 0193 0400
Optimus	0680 0196		0067 0586 0549
Optonica	0123	Philex	0223 0193
Orbit	0067 0586	Philharmonic	0247
Orion	0067 0209 0385	Philips	0586 0067 0268
	0586 0685 0265		0042 0221 0117
	0324 0350 0041		0223 0373 0404
	0039 0351 0473	Phoenix	0067 0586 0400
	0132 0294 0442		0516 0193 0117
	0546 0561 0574		0102 0246 0350
	0744	Phonola	0067 0586 0042
Orline	0067 0248 0586		0117 0223 0246
Ormond	0698 1067 0067	Pilot	0586 0067 0742
	0586	Pioneer	0196 0067 0586
Orsowe	0546		0458 0400 0373
Osaki	0102 0248 0247		0391 0139 0193
	0294 0067 0442		0317 0516 0542
	0404 0385 0586	Pionier	0400 0516
Osio	0067 0586 0320	Plantron	0067 0586 0294
Oso	0248		0039
Osume	0187 0102 0066	Playsonic	0247 0744
	0248 0067 0586	Policom	0132 0139 0226
Otto Versand	1535 1040 0066		0236 0268 0391
	0123 0542 0067		0193 0100 0104
	0586 0225 0574		0117
	0379 0221 0391	Polytron	0727
	0265 0139 0324	Poppy	0039
	0256 0277 0333	Portland	0404
	0350 0247 0039	Powerpoint	0517
	0312 0373 0458	Prandoni-Prince	0277 0546 0391
	0546 0549		0393
Pacific	0067 0586 1167	Precision	0247
Pael	0246	Premier	0039
Palladium	0400 0067 0221	Prima	0039 0294 0333
	1535 1040 0448		0442
	0586 0277 0357	Prinz	0102 0574 0379

	0379 0117 0193		0391 0224
	0247 0441 0685	Profex	0039 0193 0391
	0549 0393		0393
Palsonic	0294 0442 0067	Profi	0039
	0247 0407 0248	Profitronic	0067 0586 0132
	0728 0586 0478	Proline	0067 0586 0655
Panama	0039 0247 0294		0664 0441
<b>PAGE 30</b>			
	0351 0102	RFT	0117 0322 0400
Prosonic	0067 0586 0400		0458 0102 0294
	0404 0401 0638		0067 0586
	0744 0246 0609	Rhapsody	0246
Protech	0067 05B6 0247	Ricoh	0067 0586
	0039 0277 0379	Roadstar	0039 0448 0067
	0132 0294 0448		1067 0586 0218
	0367 069B 0312		0294 0312
	0193 0516	Robotron	0117
Proton	0208	Rodex	0067 0586
Provision	0529 0067 0586	Rowa	0294 0728 0247
	1067		0742
Pye	0067 0586 0042	Roxy	0478
	0117 0404 0379	Royal Lux	0451 0400 0442
	0442		0365
Pymi	0039	Rukopir	0586 0067
Quadra Vision	0430	Saba	0655 0317 0117
Quadral	0248		0429 0193 0139
Quasar	0277 0680 0039		0546 0373 0391
Quelle	0067 1535 1040		0528 0226 0365
	0041 0139 0642		0578 0501 0590
	0574 0379 0221	Saccs	0268
	0391 0066 0247	Sagem	0640 0485 0312
	0277 0104 0357	Saisho	0265 0546 0039
	0100 0134 0135		0041 0247 0193
	0698 0586 0187		0294 0574
	0225 0294 0320	Saivod	0067 0586
	0324 0376 0451	Sakai	0193
	0039	Salora	0320 0224 0379
Questa	0066		0193 0386 0391
R-Line	0067 0586 0193		0546 0393 0578
Radialva	0139 0248 0193		0369 0238
	0067 05B6 0317	Salsa	0365
Radiola	0067 0586 0042	Sambers	0546 0132
	0247	Samsung	0648 0617 0067
Radiomarelli	0117 0546 0277		0208 0586 0039
	0067 0586		0247 0478 0400
RadioShack	0067 0586 0208		0294 0246 0320
Radiotune	0039 0067 0586		0674 0090 0102
	0458 0400 0609		0238 0549 0193
	0448 0442 0698	Sandra	0246 0247

	0294	Sanela	0268
Rank	0100	Sansui	0067 0586 0736
Rankarena	0066 0187		0401 0685 0632
RBM	0100		0451 0485
RCA	0655 0123 0590	Santon	0039
	0365 0373	Sanyo	0238 0187 0322
Realistic	0208		0066 0041 0400
Recor	0067 0586		0369 0102 0246
Rectiligne	0067 05B6		0247 0134 0075
Rediffusion	0391 0578 0066		0585 0039 0574
	0376		0193 0067 0138
Redstar	0067 0586		0586 0516
Reflex	0067 0586 1067	Save	0067 0586
	0698	SBR	0067 0586 0042
Reoc	0744 0664		0223
Revox	0067 0586 0400	Schaub Lorenz	0379 0578 0744
Rex	0236 0393 0441		0636 0391 0516
	0277 0193 02S9		CM04
	0294	Schneider	1167 0067 0586
<b>PAGE 31</b>			
Schneider	0549 0042 0333	Sky	0067 0586
	0574 0379 0424	Skymaster	0135
	0289 0373 0247	Skysonic	0726
	0277 0401 0391	SLX	0698
	0248 0698 1067	Smaragd	0517
	0193 0744	Sogera	0350
Scotland	0193	Solavox	0391 0102 0193
Scott	0208 0209		0578 0067 0586
Sears	0208 0209	Sonawa	0248
SEG	0067 0586 1067	Soniko	0067 0586
	0698 0247 0517	Sonitron	0238 0400 0369
	0039 0379 0193		0247
	0294 0664 0066	Sonneclair	0067 0586
	0132 0277 0246	Sonoko	0067 0586 0039
	0248		0294 0312 0247
SEI	0117 0132 1535	Sonolor	0238 0597 0193
	1040 0193 0546		0430 1535 1040
	0574 0379 0324		0578 0391 0312
	0236 0067 0586	Sontec	0067 0586 0400
Sei-Sinudyne	0132 0236 0324		0324 0039
	0546 1535 1040	Sony	1535 1681 1040
	0574 0067 0586		0041 0066 0132
	0117		0067 0586
Seleco	0236 0393 0289	Sound & vision	0132 0248 0404
	0193 0441 0401		0067 0586
	0066 0294 0376	Soundesign	0208 0209
Sencora	0039	Soundwave	0067 0586 0350
Sentra	0065 0248 0039		0448
	0379	Spectra	0039

Serino	0640 0485 0246	Ssangyong	0039
	0123	Staksonic	0039
Sharp	0123 1223 0187	Standard	0067 0586 1067
	0066 0324 0683		0248 0039 0247
	0223 0546		0350 0404
Shintoshi	0067 0586	Starlite	0039 0193 0067
Shivaki	0067 0586 0473		0586 0294 0442
	0404	Stenway	0312 0248
Shorai	0324 0209	Stem	0236 0289 0193
Siarem	0193 0117 0132		0393 0294 0441
	0546		0465
Siemens	0221 0225 0357	Strata	0067 0586 0294
	0187 0067 0586		0039
	0391	Stylandia	0247
Siera	0067 0586 0042	Sunic Line	0067 0586
Siesta	0400	Sunkai	0324 0385 0351
Silva	0067 0586 0246		0485 0248 0265
	0391		0640 0067 0586
Silver	0066 0067 0485		0517 0561
	0391 0586 0209	Sunstar	0401 0067 0586
	0745 0193		0039 0609 0294
Singer	0039 0117 0067	Sunwood	0067 0586 0039
	0586 0132 0277	Superla	0546 0246 0247
	0465 0430 0597	SuperTech	0039 0067 0586
	0365 0193		0246 0248
Sinudyne	0117 0265 0132	Supra	0404 0039
	0324 0193 0391	Susumu	0365 0248 0317
	0546 0574 0379	Button	0039
	1535 1040 0236	Swissline	0277
	0067 0586	Sydney	0246 0247
Skantic	0386	Sysline	0067 0586
<b>Page 32</b>			

Sytong	0246	Telexa	0132
T+A	0477	Ternco	0324
Tandberg	0397 0441 0139	Tempest	0039 0067 0586
	0367 0226 0391	Tennessee	0067 0586
	0193	Tensai	0134 0248 0067
Tandy	0248 0102 0247		0586 0247 0324
	0277 0123 0193		0350 0039 0135
Tashiko	0066 0247 0200		0404 0401 0407
	0246 0193 0393		0277 0745 0193
Tatung	0067 0586 0102	Tenson	0350 0039
	0546 0247 0041	Tevion	0549 0067 0586
TCM	0744		0698 1167
Teac	0728 0542 0067	Tenet	0247 0404 0039
	1067 0586 0742		0246 0248
	0698 0485 0247	Thomson	0655 0590 0317
	0736 0294 0574		0139 0429 0501

	0208 0039 0442		0365 0226 0373
	0379 0312 0448		0067 OSB6
TEC	0247 0039 0277	Thorn	0223 0103 0220
	0501 0365 0367		0268 0104 0529
	0289 0067 0586		0067 0134 0586
	0391 0193		0365 0542 0404
Tech Line	0067 0586 0698		0065 0138 0139
Techica	0248		0255 0373 0391
Technema	0350		1535 1040 0102
TechniSal	0685 0067 05B6	Thorn -Ferguson	0134 013B 0139
	0193		0220 0268 0223
Technol Ace	0209		0391 0365 0529
Tecnimagen	0586		0103 0065
Tedelex	0247 0636 0039	TMK	0208
	0238 0617 0067	Tokai	0102 0067 0478
	0586		0586 0367 0193
Teiron	0039		0247 0404 0039
Teknika	0090 0209	Tokyo	0246 0065 0478
Teleavia	0139 0317 0226	Tomashi	0312 0248
	0429 0373	Toshiba	0065 0090 0538
Telecor	0067 0193 0586		0066 0100 0132
	0248 0247 0289		0247 0139 0225
	0424		0221
Telefunken	0139 0528 0501	Towada	0379 0132 0247
	0429 0317 0104	Toyoda	0039 0401
	0131 0365 0292	TraKton	0294
	0103 0373 0226	Trans Continens	0698 0247 0067
	0067 0586 0516		0586
	0655	Transonic	0067 0586 0485
Telefusion	0067 0586		0617 0542 0294
Telegazi	0067 0193 0586		072B 0742
	0289 0248 0294	Transtec	0246
Telemeister	0350 0067 0586	Triad	0067 0586
Telesonic	0067 0586	Trident	0546 0247
Telestar	0067 0586 0609	Tristar	0294 0248 0223
	0442	Triumph	0546 0376 0586
Teletech	0067 0586 069B		0067
	0039 0277 0367	Tsoschi	0312
Teleton	0247 0236 0193	TVTEXT 95	0586
	0379 0289 0066	Uher	0067 0586 0236
	0393		0350 0333 0404
Televideon	0350 0193 0246		0448 0516 0400
Television	0067 0586		0289
Televiso	0430	Ultravox	0117 0132 0404
<b>Page 33</b>			

Ultravox	0277 0246 0193	Windstar	0312 0367
	0067 0586	Wintel	0744

Unic Line	0067 0586 0503	Xrypton	0067 0586
	0485 0379	Yamishi	0312 0485 0248
United	0067 0586 0744		0067 0247 0586
	0745	Vokan	0067 0586
Universum	0376 0135 0225	Yoko	0247 0067 0586
	0503 0391 0277		0248 0294 0039
	0522 0510 0400		0451 0400 0369
	0448 0041 0542		0246 0277
	0324 0066 0187	Yorx	0248
	0100 0193 0294	Zanussi	0236 0393 0247
	0134 0067 0586	Zenor	0369
	0451 0441 0320		
	0104 0357 1535		
	1040 0698 0574		
	0379 0247 0139		
	0367 0661 0039		
Univox	0067 0586 0367		
	0117 0193 0268		
Utax	0193		
Vestel	0067 0193 0247		
	0586 0698 1067		
Vexa	0039 0067 0586		
Videologic	0248		
Videologique	0246 0248 0247		
Videosat	0277		
VideoSystem	0067 0586		
Videotechnic	0246 0350 0247		
	0404		
Videoton	0386 0193		
Vidikron	0132		
Vidtech	0066 0208		
Viper	0367		
Visiola	0246		
Vision	0067 0586 0350		
	0247		
Vistar	0236 0391 0597		
Vortec	0067 0586		
Voxson	0117 0067 0586		
	0393 0448 0193		
Waltham	0247 0698 0386		
	0448 0317 0067		
	0586 0139		
Wards	0209		
Watson	0067 0350 0586		
	0193 0248 0609		
	0549 0424 0039		
	0698 1067		
Watt Radio	0132 0574 0379		
	0193 0246		



Wega	0067 0586 0066		
	0117		
Wegavox	0039 0067 0586		
Weltblick	0067 0586 0350		
	0247		
Weston	0067 0586		
Wharfedale	0067 0549 0586		
White Westing.	0350 0246 0067		
	0586 0367		
<b>PAGE 34</b>			

### VCR CODES:

Brand.Electronic	0071	Galaxi	0030
Brinkmann	0239 0378	Galaxis	0308
Bush	0102 0308	GE	0350
	0239 0382	GEC	0111
	0378 0111	General Technic	0378
Carena	0239 0111	Genexxa	0134
Carrefour	0075	Goldhand	0102
Casio	0030	GoldStar	0067 0030
Cathay	0308	Goodmans	0030 0102
CGE	0071 0030		0308 0067
Cimline	0102 0239		0378 0239
Clatronic	0102		0667 0382
Combitech	0382	Graetz	0071 0134
Condor	0308	Granada	0134 0076
Crown	0308 0102		0111 0036
Cyrus	0111		0067 0256
Daewoo	0308 0672		0030
	0239 0378	Grandin	0102 0067
	0075		0308 0239
Dansai	0102 0308	Grundig	0037 0225
Daytron	0308		0377 0256
de Graaf	0072 0196		0433 0350
	0134 0078		0237 0102
Decca	0030 0071	Haaz	0378 0239
	0038 0097	Hanimex	0382
	0239	Hanseatic	0067 0239
Deitron	0308		0111 0068
Denko	0102	Harwood	0102
Diamant	0067	HCM	0102 0352
Domland	0239	Minari	0034 0102
Dual	0071 0111		0382 0071
	0030		0118 0308
Dumont	0030 0111	Hisawa	0239 0382
Elbe	0308 0068	Hischito	0075
Elcotech	0102	Hitachi	0072 0196

Elin	0270		0030 0270
Elsay	0102		0034 0134
Elta	0102 0308		0414
Emerson	0102 0075	Hornyphone	0111
ESC	0308 0270	Hypson	0102 0239
Etzuko	0102		0382
Ferguson	0137 0071	Imperial	0030 0270
	0351 0083	Ingersoll	0034 0239
	0030 0308	Inno Hit	0270 0308
Fidelity	0030 0102		0102
	0382 0462	Interbuy	0067 0102
Finlandia	0134 0111	Interfunk	0111 0134
	0196 0030	Internal	0308 0667
	0414 0037	International	0308 0067
Finlux	0030 0111	Intel-	0030 0308
	0072		0239 0378
Firstline	0102 0239	Irradio	0102 0067
	0073 0067	ITT	0136 0071
	0072 0118		0414 0134
Fisher	0077 0134	ITT Nokia	0078
	0068	ITV	0308 0067
Flint	0239	JMB	0239 0382
Frontech	0352 0102	JVC	0071 0097
Fujitsu	0030		0236 0237
Funai	0030		0516
<b>PAGE 35</b>			

### VCR CODE

Kaisui	0102	NEC	0134 0067
Karcher	0308	Neckermann	0071 0036 0111
Kendo	0136 0239	Nesco	0102 0030 0382
	0083 0378	Neufunk	0239
	0067	Nikkai	0102 0308
Kenwood	0071 0068	Nokia	0134 0136 0345
KIC	0030		0071 0308
Kimari	0077		0270 0078 0072
Kneissel	0382 0239		0111
	0067	Nordmende	0071 0327
Korpel	0102		0350 0351
Kuba	0077		0237 0524 0558
Kuba	0077		0097 0523
Kuwa	0256	NU-TEC	0239 0378
Kyoto	0102	Oceanic	0030 0078 0136
Lenco	0308		0111 0134 0071
Leyco	0102 0118		0076
LG	0067 0030 0308	Okano	0345 0239 0378
Lifetec	0239 0378		0102 0352 0308
Loewe	0111 0036	Orbit	0102
	0067 0034 0256	Orion	0239 0034 0066
Logik	0034 0270 0102		0118 0382 0378

	0136 0239	Orson	0030
Lumatron	0308	Osaki	0030 0067 0102
Luxor	0136 0076 0073	Osume	0102
	0102 0134 0077	Otake	0239
	0078	Otto	0111
Magnavox	0111 0433	Palladium	0102 0345 0067
Manesth	0102 0075 0111		0071 0036 0239
	0239		0034 0270
Marantz	0111 0068	Palsonic	0102 0030
	0239	Panasonic	1592 0256 0257
Mark	0308	Pathe	0066 0034 0073
Marquant	0352	Pathe	0071
Matsui	0239 0034 0378	Perdio	0030 0239
	0066 0067 0118	Philco	0068 0102
	0270 0382 0362	Philips	0111 0433 0036
	0030		0414
Mediator	0111	Phonola	0111
Medion	0239 0378 0382	Pioneer	0097 0111 0072
Melectronic	0030 0067 0068	Portland	0308 0667
Memorex	0134 0030 0076	Prinz	0030 0118
	0067 0078 0077	Profex	0352
Memphis	0102	Profitronic	0111 0270
Metz	1592 0225 0377	Proline	0030 0350 0351
	0111 0256 0257	Prosco	0308
	0036 0067	Prosonic	0239 0308 0030
Micormay	0378	Protech	0111
Micromaxx	0239	Provision	0308
Migros	0030	Pye	0111
Minerva	0225 0036	Quasar	0308
Mitsubishi	0073 0097 0111	Quelle	0036 0111
Multitec	0067	Radialva	0067 0102 0111
Multitech	0030 0102 0134		0078
	0352	Radiola	0111
Murphy	0030	Rank	0071
Myryad	0111	Reoc	0239 0378 0667
NAD	0134		0308
National	1592 0256	Rex	0071 0414
NEC	0071 0068 0097	RFT	0433 0102
<b>PAGE 36</b>			

Roadstar	0270 0102	Sunstar	0030
	0308	Suntronic	0030
Royal	0352 0120	Sunwood	0102
Saba	0071 0217	Supra	0067 0270
	0236 0237	Symphon	0030 0102
	0351 0414	T+A	0256
	0610 0308 0560	Taisho	0034 0239 0118
Saisho	0034 0239 0066	Tandberg	0308
	0118 0378	Tashiko	0030 0078 0270
Salora	0076 0073 0136		0111 0067

	0134	Tatung	0030 0071
Samsung	0270 0462		0083 0078 0073
Sansui	0071 0097		0239 0378 0382
	0102 0352 0378	Teac	0102 0071
Sanwa	0034		0308 0672 0067
Sanyo	0134 0076 0077		0111 0433 0337
	0078 0097	TEC	0308 0102
Saville	0382 0308 0270	Tech Line	0102
SBR	0111	TechniSat	0378 0239
Scan Sonic	0270	Teleavia	0071 0217
Schaub Lorenz	0071 0134 0030	Telefunken	0217 0071
	0136 0345		0350 0351
Schneider	0102 0030 0067		0523 0524 0559
	0111 0308 0270		0560 0308 0610
	0072	Teletech	0352 0102 0308
Seaway	0308		0030
SEG	0102 0270 0352	Tenosal	0102
	0308 0672 0111	Tensai	0030 0352 0067
SEI	0034 0111		0102 0034
Sei-Sinudyne	0034 0111 0071	Tevion Thomson	0378 0239 0350
	0067		0071 0097
Sentra	0102		0236 0523 0524
Setron	0102		0558 0308
Sharp	0078 0067	Thorn	0071 0134 0067
Shintom	0102 0134		0066
Shivaki	0067	Thorn-Ferguson	0137 0350
Shorai	0118 0034	Tokai	0102 0067 0071
Siemens	0225 0036 0067		0134
	0134 0037 0111	Tokiwa	0102
	0350 0377	Topline	0378
Siera	0111	Toshiba	0075 0071
Silva	0067		0073 0111
Silver	0308	Towada	0352 0102
Singer	0075	Tredex	0308
Sinudyne	0034 0111	Uher	0067 0270
Smaragd	0378	Ultravox	0308
Sonitron	0077	Unitech	0270
Sonneclair	0102	United Quick	0308
Sonoko	0308	Universum	0030 0111 0270
Sonolor	0078 0076		0067 0136 0378
Sontec	0067 0308		0225 0036 0239
Sony	0063 0064 0062		0352 0433 0134
	0136 1062	Victor	0038 0097
Soundwave	0067 0239	Watson	0111 0382
Ssangyong	0102	Weltblick	0067
Standard	0308	Yamaha	0071
Starlite	0067 0134	Yamishi	0102 0308
Stern	0308	Yokan	0102
Sunkai	0239 0378 0308	Yoko	0067 0102 0270
ZX	0239		

DVD CODES

		HE	0760
		Hitachi	0603
		Hyundai	0813
		JVC	0653 0588
			0569
			0533
		Karcher	0813
3DLAB	0569	Kendo	0729
A-Trend	0744	Kenwood	0564 0520
Acoust.Solutions	0760	Kiirō	0800
AEG	0818	Koss	0681
Aiwa	0671	Lawson	0735 0798
Akai	0818 0720	Lecson	0726
Alba	0747 0729 0743	Lenco	0729 0804
			0681
Amstrad	0743		0800
Ansonic	0804	Lenoxx	0720
AWA	0760	Lexia	0729
Black	0743	LG	0621 0771
Blaupunkt	0747	Lifetec	0681 0804
Blue Sky	0729 0743	Limit	0798
Boman	0813	Loewe	0569
Brandt	0681	LogicLab	0798
Bush	0729 0720 0719	Logix	0735 0813
	0747 0743 0804	Lumatron	0735
Centrum	0743	Luxman	0603
cineULTRA	0729	Magnavox	0533
Classic	0760	Manhattan	0735
Clatronic	0818	Marantz	0569
Coby	0760	Matsui	0681
Crown	0800 0681	MBO	0720 0760
Cybercom	0804	Medion	0681 0804
CyberHome	0744	Metz	0601 0555
Cytron	0681 0735	Micromedia	0533 0569
Daewoo	0800 0735 0744	Micromega	0569
Dansai	0800 0813	Microstar	0804
Decca	0800	Minax	0743
Denon	0520 0664	Minoka	0800
Denver	0729 0818	Mitsubishi	0743
Diamond	0681 0798	Mustek	0760
digiRED	0747	MX Onda	0681
DiK	0804	NAD	<771
Dinamic	0818	Naiko	0800
DiViDo	0735	Nordmende	0804

DMTECH	0813	Omni	0720
Dual	0681 0743 0760	Onkyo	0533
	0813	Optimus	0601 6555
Elta	0720	Oritron	0681
Emerson	0621 0735	Pacific	0798 0804
Ferguson	0681	Palsonic	0719
Finlux	0771 0800 0813	Panasonic	0520
GE	0747	Philips	0569 0533
Global	0798	Phonotrend	0729
Go Video	0813	Pioneer	0601 0555
GoldStar	0621 0771	Praline	0681
Goodmans	0681 0720 0813	Prosonic	0729
Grundig	0569 0681 0735	Provision	0729
	0743	Radionette	0771
Grunkel	0800	RCA	0681
H&B	0743	REC	0719 0520
Hanseatic	0771	Red Star	0800 0818
HDT	0735	Reoc	0798
<b>PAGE 38</b>			

#### DVD CODES

#### SAT CODES

Revoy	0729	Adcom	0230
Roadstar	0729 0720 0719	Akai	0230
	0743	Allsat	0230
Rotel	0653 0588	Alpha	0230
Saba	0681	Amstrad	0877
Salora	0771	Armstrong	0230
Samsung	0603	Asat	0230
Sansui	0798	AssCom	0883
Scan	0735	Astro	0203 0230
ScanMagic	0760	Aurora	0909
Schaub Lorenz	0818 0800	Austar	0672 0909
Schneider	0681 0813 0735	Axis	1141
	0818	Blaupunkt	0203
Scientific Labs	0798	BskyB	0877 1205
Scott	0681	Canal Satellite	0883
SEG	0743 0798	Canals-	0883
Sherwood	0747 0771	Cyrus	0230
Shinco	0747	D-box	1157 1144 0753
Silva	0818		0903
SilvaSchneider	0804	Distrisat	0230
Singer	0720	DNT	0230
Skymaster	0760 0798	EchoStar	0640 0197 0883
Slim Art	0800	Elta	0230
SM Electronic	0760 0798	Europa	0230

	0720		
Sony	0563 0603	Foxtel	0909
Soundmaster	0798	Freecom	0203
Soundwave	0813	Fuba	0203
Standard	0681 0798	Galaxis	1141 0883
Sunwood	0818	GOD Digital	0230
Supervision	0760 0798	Goldbox	0883
Synn	0798	Grundig	0203 0877
Tatung	0800		0883
Teac	0747 0771	Hirschmann	1141 0203
	0621 0798	ITT Nokia	0903 0753
Technics	0520	KaTelco	1141
Technika	0800	Kathrein	0203 0230
Techwood	0743	Kreiselmeier	0203
Tensai	0720 0681	Lexus	0230
Tevion	0681	Luxor	0903
Theta Digital	0601	Marantz	0230
Thomson	0581	Maspro	0203
Tokai	0818	Matsui	0203
Tokiwa	0735	Mediabox	0883
Toshiba	0533	MediaSat	0883
Umax	0720	Mega	0230
United	0818 0760	Metz	0203
Universum	0771 0743 0621	Morgan's	0230
Vieta	0735	Multichoice	0672 0909
Voxson	0760 0804	Myryad	0230
Walkvision	0747	Nikko	0753 0230
Wesder	0729	Nokia	1053 0781
Wharf edale	0726		0753 0903
XMS	0818 0719	Nova	0909
Yamaha	0520 0569	OnDigital	0781
Yukai	0760	Optus	0909 0883
Zenith	0533 0621	Orbitech	0230
		Pace	0877 1205
<b>Page 39</b>			

**SAT CODES**
**CABLE CONVERTER CODES**

Pace	0883	Alcatel	0926 0927
Panasat	0909	Austar	0306
Panasonic	0877	BT	0033
Panda	0203	Canal Plus	0473
Philips	0230 1144 0883	Comcrypt	0473
	0203	Filmnet	0473
Pioneer	0883	France Telecom	0481 0847 0926
Premiere	0883 0903		0927
Primacom	1141	General Instruments	0306
Radiola	0230	Jerrold	0033 0306
RFT	0230	Kabelvision	0033

Sagem	0850 1144	Macab	0847
Samsung	0883	Melita	0033
Schwaiger	1141	MNet	0473
Siemens	0203	Mr Zapp	0847
Sky	0877	Noos	0847
Skymax	0230	NTL Cabletoll	0306
Sony	0877 0883	Ono	1098
Strong	0909 0883	Optus	0306 1090
TechniSat	0230	Pace	1098 1090
Telestar	0230	Philips	0481 0847
Thomson	0883 0850 1076	PVP Stereo Visual	0033
Tokai	0230	Sagem	0847
IPS	0850	Scientific Atlanta	0307
Triax	0230 0883	Tele+1	0473
UEC	0909	Telepiu	0473
Unisat	0230	United Cable	0033
Universum	0203	Videotron	0280
Variosat	0203	Videoway	0280
Ventana	0230	Visiopass	0481 0847
Wisi	0203		
Zeta Technology	0230		

End .