

*preprogrammed*  
**UNIVERSAL**  
*Remote control*



**TOTAL CONTROL**

**URC - 4140**

**INSTRUCTION MANUAL**

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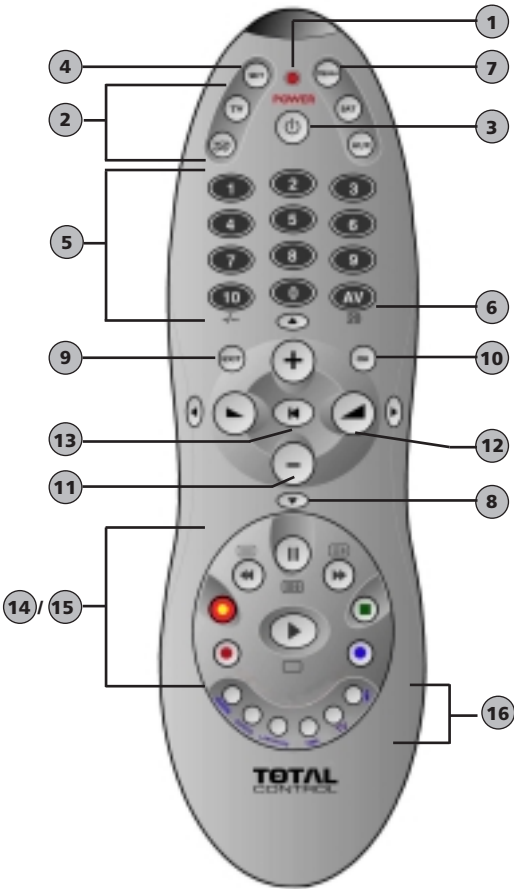
## About your TOTAL CONTROL

By choosing the TOTAL CONTROL Universal Remote Control you have opted for easy use. Made of the strictest quality, it will provide long-term satisfaction. Please read these enclosed instructions carefully before putting your TOTAL CONTROL to use.

Your TOTAL CONTROL manual is divided into two parts: Set Up Instructions and Device Codes. You will need your manual to set up your new TOTAL CONTROL so please be sure to keep it.

Your TOTAL CONTROL can operate four devices: a Television, a Video Recorder or DVD Player, a Satellite Receiver or Cable Converter and a second Television, Video Recorder/DVD Player or Satellite Receiver/Cable Converter.

Your TOTAL CONTROL needs 2 new AA/LR6 batteries.



# Installing the Batteries

Your TOTAL CONTROL needs two new AA/LR6 alkaline batteries.

- 1 Remove the battery cover from the back of your TOTAL CONTROL.
- 2 Match the batteries to the (+) and (-) marks inside the battery case, then insert the batteries.
- 3 Press the battery cover back into place.

## Features and Functions

Picture of the TOTAL CONTROL on page 3.

- 1 **LED**  
The LED (Light Emitting Diode) flashes red to show the remote is working.
- 2 **Device keys**  
The TV, VCR/DVD, SAT and AUX keys select the device to be controlled. For example pressing the TV key allows the remote to control the functions of you Television, after pressing the VCR/DVD key you can operate your Video Recorder or DVD Player, the SAT key operates your Satellite Receiver or Cable Converter etc.
- 3 **Power key**  
The Power key controls the same function as on your original remote.
- 4 **SET key**  
The SET key is used to set up your TOTAL CONTROL and to access special functions.
- 5 **Number keys**  
The number keys (0-9, 10, 20 (AV)) provide functions just like your original remote. If your original remote uses one/two digit input switching (-/-- symbol), this function can be obtained by pressing the -/-- key. If your original remote has a 20 key, this function can be found under the AV key.
- 6 **AV key**  
The AV key operates the same function as it did on your original remote control.
- 7 **Menu Key**  
The Menu key controls the same function as it did on your original remote.
- 8 **Directional Keys**  
If available on your original remote, these keys will allow you to navigate through the menu of your device.
- 9 **The EXIT key**  
With the EXIT key you will EXIT the menu.
- 10 **The OK key**  
The OK key confirms your choice made in the menu.

Twinner	0440
UEC	0902
Uniden	0217 0815 0854
Unisat	0389 0266 0223
Unitor	0240 0355
Universum	0196 0594 0420 0630
	0679 0138 0484 0765
Variosat	0196
Vector	0356 0541
Ventana	0223
Vestel	0765
Videocrypt	0734
Viper	0389
Visionic	0148
Visiosat	0374 0713 0736
Viva	0243
Vortec	0310 0444
VTech	0374 0344 0713 0841
Wela	0612 0736 0817 0155
Wetekom	0852 0180 0628 0524
Wewa	0356 0478
Wibo	0266
Winersat	0355
Wintergarten	0311
Wisi	0661 0196 0344 0395
	0713 0419 0612 0478
	0374 0524 0857 0630
Woorisat	0543
World	0355
Worldsat	0691 0733
XCOM	0855 0146
Xrypton	0541 0392
XSat	0855 0691 0736
Zaunkonig	0715
Zehnder	0344 0354 0543 0527
	0541 0392 0841 0765
	0417 0137 0240 0138
Zenith	0879
Zeta	
Technology	0223
Zodiac	0636
Zwergnase	0817 0266

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## Cable Converters

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Alcatel	0919 0920
Austar	0035
BT	0128 0739
Cabletime	0294 0400 0471 0688
Canal Plus	0466
Comcrypt	0466
Cryptovision	0623
Decsat	0446
Filmnet	0466
France	
Telecom	0474 0840 0919 0920
General	
Instruments	0499
Grundig	0552
Jerold	0026 0499
Kabelvision	0026
Luxor	0704
Macab	0840
MNet	0466
Mr Zapp	0840
Nokia	0704
Philips	0642 0474 0840
Pioneer	0167
PVP Stereo	
Visual	0026
Sagem	0840

Salora	0405 0704
Samsung	0167
Scientific	
Atlanta	0031 0500
Tele+1	0466
Teledanmark	0642
Telepiu	0466
Tudi	0309 0642
United	
Cable	0026
Videotron	0273
Videoway	0273
Visiopass	0474 0840
Westminster	0128 0739

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## DVD Players

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3DLAB	0562
Akai	0634
Denon	0513
GoldStar	0614
Grundig	0562
Hitachi	0596
Hoyo	0650
JVC	0581 0646
Kenwood	0557 0513
Lasonic	0650
LG	0614
Magnavox	0526
Marantz	0562
Micromedia	0526
Micromega	0562
Mitsubishi	0544
Onkyo	0635 0526
Optimus	0548
Panasonic	0513
Philips	0562 0526
Pioneer	0548 0594
REC	0513
Samsung	0596
Sony	0556
Technics	0513
Thomson	0574
Toshiba	0526
Universum	0614
Yamaha	0513 0568
Zenith	0526 0614

- ⑪ **Programme (+/-) keys**  
The Programme (+/-) keys operate just as those on your original remote.
- ⑫ **Volume (+/-) keys**  
The Volume (+/-) keys operate just as those on your original remote.
- ⑬ **Mute key**  
The Mute key operates the same function it did on your original remote.
- ⑭ **Video Recorder Keys**  
After pressing the VCR/DVD key, these keys operate the functions of your Video Recorder or DVD player. To prevent accidental recording on your Video Recorder, the Record key must be pressed **twice** to start recording.
- ⑮ **Teletext Keys**  
After pressing the TV key, these keys are used to operate the main Teletext functions. Of course, your Television must have Teletext capability.  
When accessing the text mode, the colour keys marked red, green, yellow and blue, allow you to access the Fastext functions of your Television. If on your original remote control these keys are used for Menu navigation, the TOTAL CONTROL Fastext keys may operate the same. For a more detailed explanation of Teletext and Fastext, please refer to the manual of your Television. Remember, different televisions control Teletext and Fastext functions in different ways. Not all of the Teletext functions may be available on your particular model.

**TEXT ON:** Puts the television in the Teletext mode.

**TEXT OFF:** Switches the television back to regular viewing mode. On some televisions, this may be done by pressing the TEXT ON key several times.





**HOLD/STOP:** Stops changing pages.

**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.

- ⑯ **Optional keys**  
These keys are designed for use with digital satellites by Foxtel (setup code= 0902), Austar (setup code= 0665) or Pace (setup code= 0520).

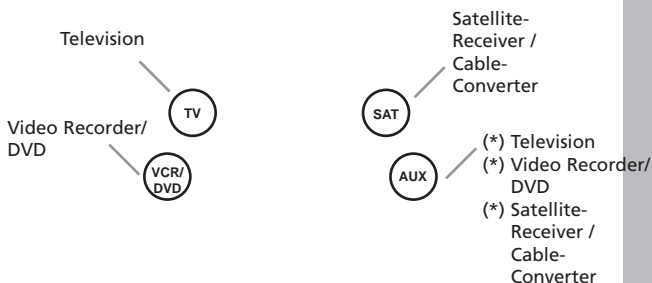
# Setting up your devices

## Example: to set up the TOTAL CONTROL for your Television:

- 1 Find your device code in the code section (page 12 – 25). Codes are listed by brand name. The most popular code is listed first. Make sure your television is switched on (not on standby).
- 2 Press and release the **TV** key on your TOTAL CONTROL. 
- 3 **Press and hold down the SET** key until the red light blinks twice (the red light will blink once and then twice). 
- 4 Enter your **four-digit code** using the number keys. The red light will blink twice. 
- 5 Now, aim your TOTAL CONTROL at your television and press **POWER**. If your television switches off, your TOTAL CONTROL should be ready to control your television. 

- If your device does not respond, follow steps 1 through 5 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 7, even if your brand is not listed at all.
- 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 5.
- To set up your other devices, follow the same instructions above, only press the appropriate device key during step 2.
- Write your code in the boxes provided in the battery compartment and on page 8, for quick, easy reference.

## Devices can be found under the following keys:











- To set up a second TV, VCR/DVD or SAT see page 9.
- (\*) To use the AUX key see page 9.

# The Search Method

If your device does not respond to the TOTAL CONTROL after you have tried all the codes listed for your brand, try the Search Method. The Search Method may also work if your brand is not listed at all.

## Example: to search for your Television Code:

- 1 Switch your Television on (not on standby).
- 2 Press the **TV** key on your TOTAL CONTROL. 
- 3 Aim the TOTAL CONTROL at your Television. **Press and hold down the SET** key until the red light on the TOTAL CONTROL blinks twice. 
- 4 Press **9 9 1**, the red light will blink twice.   
- 5 Now alternate between the **TV** and **POWER** key, over and over, until your Television turns off. You may have to press these keys many times (up to 150 times) so please be patient. Remember to keep pointing the TOTAL CONTROL at your Television when pressing these keys.  
- 6 When your Television switches off, press the **SET** key to store the Code. Now, your TOTAL CONTROL should be ready to control your television. 

- If you cannot control your Television properly, please continue the Search Method, you may be using the wrong Code.
- To search for your other devices, follow the same instructions above, only press the appropriate device key during step 2 and 5.
- If your Video's original remote control does not have a POWER key, press PLAY instead of POWER when searching for your Code during step 5.



# Blink out the Current Code

If you have set up your TOTAL CONTROL via the Search Method, you can blink back your code for future reference.

**Example: To blink out your television code:**

1 Press the **TV** key on your TOTAL CONTROL.



2 **Press and hold down the SET** key until the red light blinks twice.



3 Press **9 9 0**, the red light will blink twice.



4 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".



5 For the second digit, press **2** and count all the red blinks.



6 For the third digit, press **3** and count all the red blinks.



7 For the fourth digit, press **4** and count all the red blinks.



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

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## Quick Code Reference

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

Device type

Code

1. ....

--	--	--	--

2. ....

--	--	--	--

3. ....

--	--	--	--

4. ....

--	--	--	--

# The AUX key

## Example 1:

To program a second television on the AUX key you need to change the AUX key into a TV key:

1 (SET) (\*) → 9 → 9 → 2 → TV → AUX (\*\*)

**The AUX key has now become a second TV key.**

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

(AUX) → (SET) (\*) →  (TV Code) (\*\*)

## Example 2:

To program a second Video recorder or DVD player on the AUX key you need to change the AUX key into a VCR/DVD key:

1 (SET) (\*) → 9 → 9 → 2 → VCR/DVD → AUX (\*\*)

**The AUX key has now become a second VCR/DVD key.**

2 Now enter the Set Up code for your **VCR or DVD** by pressing:

(AUX) → (SET) (\*) →  (VCR or DVD Code) (\*\*)

# Changing a Device key

It is possible to change any device key.

## Example:

To program a second Video Recorder or DVD player on the SAT key you need to change the SAT key into a VCR/DVD key:

1 (SET) (\*) → 9 → 9 → 2 → VCR/DVD → SAT (\*\*)

**The SAT key has now become a second VCR/DVD key.**

2 Now enter the Set Up code for your **VCR or DVD** by pressing:

(SAT) → (SET) (\*) →  (VCR or DVD Code) (\*\*)

# Resetting a Device Key

**Example:** To reset the SAT key press:

(SET) (\*) → 9 → 9 → 2 → SAT → SAT (\*\*)

(\*) **Hold down the SET key until the red light blinks twice (the red light will blink once then twice).**

(\*\*) **The red light blinks twice.**

# 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/DVD).

**Last key pressed:**      **You can control:**

VCR/DVD

TV volume up and down, mute

SAT

TV volume up and down, mute

To punch through to TV volume while in VCR/DVD or SAT mode press: **SET(\*) 9 9 3 TV key.**

**To cancel the "Volume Punch Through" press:**

**SET(\*) 9 9 3 Volume(+)** (the red light will blink four times).

(\*) Hold down the SET key until the red light blinks twice (the red light will blink once then twice).

## Colour & Brightness

Depending on the functions of your original remote control, the TOTAL CONTROL can operate the colour and brightness settings of your Television.

To adjust the colour:

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

To adjust the brightness:

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

# Trouble-Shooting

<b>Problem:</b>	<b>Solution:</b>
<i>Your brand is not listed in the TOTAL CONTROL code section ?</i>	Try the Search Method on page 7.
<i>The TOTAL CONTROL does not operate your device(s) ?</i>	A) Try all the codes listed for your brand. B) Try the Search Method on page 7.
<i>The TOTAL CONTROL is not performing commands properly ?</i>	You may be using the wrong code. Start the Search method over again to locate the proper code.
<i>Problems changing channels ?</i>	Enter the programme number exactly as you would on your original remote.
<i>Video not recording ?</i>	As a safety feature on your TOTAL CONTROL, you must press the Record key twice.
<i>The TOTAL CONTROL does not respond after pressing a key ?</i>	Make sure you are using new batteries and are aiming the TOTAL CONTROL at your device.
<i>The red light does not blink when you press a key ?</i>	Replace batteries with 2 fresh, new AA/LR6 alkaline batteries.

## Customer Service

If you have any questions about the operation of your new TOTAL CONTROL Universal Remote Control, you may call our Customer Service for assistance. Before calling please read this manual carefully to find an answer to your question. If you cannot find a solution in this manual, please complete the information below on all your equipment before calling.

Your TOTAL CONTROL model: URC 4140

Date of purchase:        /        /  
-----  
                                 Day / Month / Year

A list of your equipment/models: (see example below)

<u>Type</u>	<u>Brand</u>	<u>Model No.</u>	<u>Remote Model No.</u>	<u>TOTALCONTROL Code</u>
TV	Saba	TCW 301	MB 100	0648 (ex)

Type/model numbers can often found in your equipment owner's manual or on the factory plate behind the device.

In Australia: I 800 812 261  
opening hours: 8.00 am- 5.00 pm (Mon-Fri.)

## Televisions

A.R.	
Systems	0060 0375
Abex	0055
Accent	0060
Acec	0035
Admiral	0110 0116 0386 0441 0328 0236 0287
Adyson	0091 0240 0239 0055
Agashi	0239 0287
AGB	0539
Agef	0110
Aiko	0239 0032 0060 0394 0058 0456 0095 0384 0214 0287 0240
Aim	0060 0297
Akai	0384 0231 0394 0060 0456 0214 0058 0032 0095 0241 0186 0569 0539 0625 0579 0571 0604 0503 0240 0654 0239 0287 0471 0400 0629
Akiba	0241 0305 0478 0060
Akito	0295 0060
Akura	0241 0382 0305 0299 0032 0435 0194 0287 0060 0516 0691
Alaron	0202 0239
Alba	0241 0258 0032 0441 0393 0378 0394 0060 0239 0270 0454 0186 0234 0604 0510 0059 0691 0602
Alcyon	0099 0234
Allorgan	0229 0317 0240
Allstar	0060
Amplivision	0240 0423 0343 0393
Amstrad	0200 0032 0539 0287 0377 0241 0394 0456 0194 0385 0435 0060 0671
Anam	0060 0032 0091
Anam National	0060
Anglo	0032 0287
Anitech	0032 0091 0099 0287 0060
Ansonic	0393 0315 0125 0032 0060 0397 0186 0346 0434 0282 0270 0035 0451
Apollo	0496
Arc en Ciel	0422 0524 0132 0219 0591 0356 0221
Arcam	0239 0422 0240
Ardem	0509
Aristona	0060 0579 0035 0036
Arthur Martin	0186 0423
ASA	0128 0369 0093 0127 0110
Asberg	0060 0099
Asora	0032
Asuka	0241 0287 0239 0305 0240
Atlantic	0060 0239 0229 0282 0343
Atori	0032
Auchan	0186 0423
Audiosonic	0060 0132 0240 0393 0360 0287 0241 0509 0451
Audioton	0240 0509 0393 0287
Ausind	0099
Autovox	0110 0229 0260 0099 0372 0240 0270 0359
AWA	0034 0059 0032 0180 0397 0435 0060 0239 0629
Ayomi	0261
AYR	0558
Baird	0132 0216 0366 0213 0215 0095 0096 0240 0231
Bang & Olufsen	0588 0110 0643
Barco	0403 0186
Basic Line	0241 0032 0397 0060 0590 0186 0305
Bastide	0240
Baur	0169 0326 0558 0218 0535 0060 0577 0214 0384 0372 0528 0033
Bazin	0240
Beko	0393 0509 0060 0629
Beon	0060 0441 0055
Best	0360 0393 0444
Bestar	0060 0393 0397
Binatone	0240
Black Star	0270
Blacktron	0305
Blackway	0305
Blaupunkt	0577 0214 0558 0218 0223 0236 0350 0351 0341 0471
Blue Sky	0241 0305 0478 0060 1060 0510 0691
Blue Star	0305
Bondstec	0270
Boots	0295 0240
BPL	0305 0396 0060
Brandt	0524 0132 0422 0228 0260 0356 0219 0221 0310 0358 0591 0648
Braun	0389
Brinkmann	0441 0060 0542
Briovega	0060 0110 0385
Britannia	0239 0240
Brother	0287
Bruns	0110
BSR	0186 0317
BTC	0241
Bush	0691 0241 0258 0186 0372 0032 0059 0305 0060 0295 0378 0394 0386 0397 0542 0287 0234 0384 0510 0231 0604 0317 0240 1060
Candle	0209
Capsonic	0287
Carad	0633 0060
Carena	0478 0060
Carrefour	0059 0093
Carver	0193
Cascade	0032 0060
Casio	0060
Cathay	0060
CCE	0060 0240
Centurion	0060
Century	0110 0236 0270 0261

CGE	0097 0107 0329 0099 0270 0275 0186 0299 0441 0393	Dux	0060 0035
Cimline	0032 0258 0241	Dynatron	0060
Citizen	0558 0209	Elbe	0458 0261 0282 0385 0315 0393 0186 0060 0241 0214 0434 0633
City	0032	Elcit	0110 0270 0539 0125 0186
Clarivox	0441 0093	Elekta	0287 0305
Clatronic	0241 0287 0393 0394 0240 0099 0270 0060 0032 0125 0343 0602	ELG	0060
Clayton	0408	Elin	0239 0060 0128 0127 0571 0384 0471 0328 0372 0186 0032
CMS		Elite	0241 0060
hightec	0240	Elman	0125
Concorde	0032	Elta	0032 0091 0287 0239
Condor	0239 0270 0305 0343 0060 0393 0032 0125 0434 0441	Emerson	0200 0236 0110 0270 0060 0202 0394 0093 0305 0343 0062
Conic	0055	Emperor	0305
Contec	0239 0032 0180 0034 0059	Erres	0060 0035
Continental		ESC	0060
Edison	0524 0132 0260 0219 0221 0422 0356 0228 0310 0510 0591	Etron	0060 0032 0186
Cosmel	0032 0360	Eurofeel	0287
Crezar	0236	Euroman	0239 0287 0060 0240 0444 0393
Crosley	0110 0270 0097 0107 0275 0099 0186 0236	Europa	0060
Crown	0396 0032 0393 0509 0099 0444 0060 0382 0602 0062 0441 0231 0510 0076	Europhon	0060 0539 0125 0236 0240 0270 0186 0454
Crystal	0454	Expert	0229 0423 0282 0186 0328
CS		Exquisit	0060 0270
Electronics	0270 0239 0241	Family Life	0060
CTC	0270	Fenner	0397 0032
Curtis		Ferguson	0096 0310 0215 0213 0358 0261 0216 0132 0583 0648
Mathes	0116 0168 0189	Fidelity	0216 0239 0394 0386 0186 0287 0060
Cybertron	0241	Filsai	0240
Daenyk	0202	Finlandia	0231 0369 0382 0571 0384
Daewoo	0032 0060 0239 0397 0241 0062 0240 0522	Finlux	0128 0127 0060 0369 0240 0095 0186 0099 0539 0093 0110 0202 0125 0434 0654 0515 0503
Dainichi	0241 0239	Firstline	0317 0344 0239 0060 0397 0408 0270 0032 0186 0125 0240 0434 0372 0261 0095 0258 0691 0231
Dansai	0060 0287 0055 0058 0239 0032	Fisher	0127 0240 0059 0231 0393 0578 0068 0110 0180 0384 0186 0326 0372 0095
Dansette	0435	Flint	0060 0478 0095 0241
Dantax	0393 0509	FNR	0125
Datsura	0396 0231	Forgestone	0216
Dawa	0060	Formenti	0110 0236 0239 0343 0186 0099
Daytron	0032 0397 0060	Fortress	0116 0110
de Graaf	0231 0067 0250 0186 0571	Fraba	0393 0060
Decca	0095 0539 0060 0267 0272 0295 0240	Friac	0032 0060 0125 0444
Deitron	0060	Frontech	0270 0287 0372 0386 0454 0471 0240 0032
Denko	0287	Fujitsu	0202 0229 0095 0125 0240 0186 0032 0375
Denon	0168	Fujitsu	
DER	0216 0213	General	0032 0240
Derwent	0224	Funai	0287 0202 0317
Desmet	0343 0060	Galaxi	0125 0060
Diamant	0060	Galaxis	0393 0441 0060 0125
Digiline	0060		
Dixi	0032 0060 0270 0240		
Domland	0417		
Doric	0224		
Drean	0060		
DTS	0032		
Dual	0372 0240 0366 0282 0359 0542 0060 0375 0417 0422 0326 0186		
Dumont	0110 0127 0125 0236 0240 0093 0095		

GBC	0236 0186 0032 0397 0241	Hisawa	0305 0241 0423 0478 0110
GE	0583 0132 0305 0310 0358 0366	Hit	0248 0059 0372 0379
Geant		Hitachi	0067 0066 0496 0186 0366 0601 0219 0221 0240 0329 0250 0055 0217 0299 0539 0095 0504 0522 0060 0586 0168 0128 0579 0173 0571
Casino	0186 0423	Hitachi	
GEC	0066 0095 0186 0384 0228 0539 0060 0240 0372	Fujian	0131
Geloso	0236 0270 0032 0386 0186 0397	Hitsu	0032 0478 0241
General	0613 0132 0310 0494	Hornyphone	0060 0035
General		Hoshai	0241 0478
Technic	0032	Huanyu	0397 0239
Genexxa	0241 0060 0435 0516	Hygashi	0240 0239
Germanvox	0236	Hyper	0032 0239 0240 0270
Goldhand	0239	Hypersonic	0384
Goldline	0360	Hypson	0060 0287 0240 0305 0478 0423 0261
GoldStar	0060 0393 0055 0313 0032 0400 0240 0270 0239 0454 0186 0384 0067	Iberia	0060
Goodmans	0059 0095 0060 0032 0287 0539 0313 0202 0397 0510 0387 0394 0522 0579 0366 0258 0058 0503 0583 0055 0240 0358	ICE	0287 0240 0060 0394 0241 0239 0032
Gorenje	0393 0444	Ices	0241 0239
GPM	0241	Imperial	0060 0270 0393 0441 0186 0097 0107 0275 0099 0372 0219
Gradiente	0060 0076 0193	Indesit	0260 0236
Graetz	0060 0384 0394	Indiana	0060
Granada	0060 0423 0249 0379 0382 0035 0068 0095 0169 0131 0231 0240 0099 0059 0362 0539 0224 0496 0358 0583	Ingelen	0510 0633
Grandin	0305 0241 0423 0060 0032 0343 0186 0478 0602 0633	Ingersoll	0032
Gronic	0125 0240	Inno Hit	0032 0095 0060 0241 0313 0240 0099 0539 0270
Grundig	0558 0218 0214 0577 0510 0093 0099 0228 0260 0060 0579	Innovation	0542
Halifax	0287 0239 0240	Interactive	0434
Hampton	0239 0240	Interbuy	0032 0287 0270 0091
Hanimex	0317	Interfunk	0060 0035 0110 0535 0298 0350 0186 0569 0384 0393 0524 0132 0591
Hanseatic	0060 0315 0305 0372 0186 0384 0417 0236 0343 0451 0393 0032 0317 0240 0396 0454 0542 0299 0110	Internal	0060
Hantarex	0032 0236 0060 0319 0125	Intervision	0305 0240 0478 0060 0091 0394 0400 0542 0471 0509 0393 0417 0510 0241 0125 0454 0186 0287 0270
Hantor	0060	Irradio	0032 0060 0241 0270 0313 0099
Harley		Isukai	0241 0060 0305
Davidson	0202	ITC	0240
Harvard	0091	ITS	0060 0394 0241 0305 0287 0239
Harwood	0032 0435 0055 0060	ITT	0186 0503 0372 0569 0384 0496 0571 0590 0216 0369 0362 0231 0202
Hauppauge	0060	ITT Nokia	0384 0571 0186 0569 0496 0503 0372 0369 0231 0202 0362 0590 0629 0633 0654
HCM	0287 0032 0305 0435 0240 0241 0441 0060	ITV	0287 0060 0270
Hema	0240 0032	Jean	0059
Hemmer-		JEC	0058
mann	0372	JVC	0676 0076 0117 0213 0059 0215 0216 0394 0241 0629
Hifivox	0524 0132 0219 0422 0591	Kaisui	0241 0305 0060 0239 0478 0240 0032
Highline	0287 0060	Kamp	0239
Hikona	0241	Kapsch	0229 0186 0384 0282 0127
Hinari	0231 0202 0059 0060 0241 0032 0186 0387 0062 0378 0466 0234 0510 0258 0317		

Karcher	0060 0444 0393 0305 0125 0633 0287	Matsui	0258 0200 0032 0378 0034 0095 0059 0060 0579 0510 0234 0240 0377 0317 0394 0456 0466 0386 0602 0478 0295 0372 0539 0058 0454 0186 0231 0068 0218 0214 0358
Kawasho KB	0239	McMichael	0066
Aristocrat	0186	Mediator	0060 0579 0035
Kendo	0385 0386 0258 0270 0125 0060 0451 0393 0434 0633 0400 0542	Medion	0060 0691 0542
Kennedy	0229 0236 0186 0458	Megas	0633
Kingsley	0239	Megatron	0168
Kneissel	0458 0282 0315 0393 0261 0060 0434 0633	Melectronic	0369 0060 0535 0132 0366 0270 0128 0127 0397 0032 0240 0091 0503 0515 0239 0434 0372
Kolster	0060 0125 0372	Melvox	0423
Konka	0241 0394 0060	Memorex	0032 0173 0273
Kontakt	0510	Memphis	0360 0095 0032 0408
Korpel	0060	Mercury	0060 0032
Korting	0110 0444 0393 0343	Metz	0110 0218 0558 0470 0262 0236 0577 0214 0298 0390 0411 0610
Kosmos	0060	MGA	0173
Kotron	0435 0287	Micromaxx	0060 0691
Kraking	0261	Midland	0055 0062
KTV	0062 0240	Minerva	0510 0558 0218 0093 0099 0214 0577 0260
Kuro	0396	Minoka	0435 0060 0382
Kyoshu	0287 0435 0055 0441	Mitsubishi	0131 0173 0535 0060 0116 0377 0110 0059 0224 0260 0216
Kyoto	0408 0055 0186	Mivar	0315 0313 0314 0393 0099 0239 0632
Lecson	0060	Monaco	0032
Lemair	0434	Morgan's	0060
Lenco	0032 0397 0127 0186 0060	Motion	0099
Lenoir	0032	Motorola	0116
Lesa	0270	MTC	0393 0372 0535 0239
Leyco	0287 0095 0060 0317 0602	MTEC	0295 0055
LG	0060 0393 0313 0055 0032 0400 0240 0270 0239 0454 0186 0384	Multi- broadcast	0216
Liesenkotter	0060 0350 0351 0035	Multi- standard	0125
Lifetec	0032 0287 0542 0060 0397 0241 0691 0535	Multitec	0060 0691
Lloyd's	0032	Multitech	0240 0372 0032 0239 0270 0125 0386 0509 0393 0060
Lloytron	0055	Murphy	0127 0239 0062 0095 0186
Loewe	0535 0060 0110 0315 0393	Musikland	0241
Logik	0034 0216 0394	NAD	0384 0189
Logix	0691	Naiko	0060
Luma	0386 0229 0328 0060 0385 0186 0282 0434 0397 0032	Nakimura	0397 0060
Lumatron	0386 0229 0328 0060 0385 0186 0282 0384 0240 0287 0096	Naonis	0386
Lux May	0060 0032	NAT	0237 0249 0363
Luxor	0217 0260 0313 0380 0386 0503 0515 0372 0384 0231 0379 0571 0186 0369 0496 0202	National	0260 0237 0263 0249 0363
Madison	0060	NEC	0193 0059 0343 0478 0032 0397 0240 0060 0034
Magnadyne	0110 0270 0539 0125 0186	Neckermann	0060 0214 0393 0528 0033 0223 0577 0579 0186 0350 0441 0372 0110 0236 0270 0240 0434
Magnafon	0539 0236 0099 0125 0239	NEI	0060 0360 0454 0394
Magnavox	0059 0202 0060	Nesco	0270 0202
Magnum	0671	Netsat	0060
Mandor	0287	Network	0055 0360
Manesth	0060 0258 0240 0287 0343 0299 0058 0317		
Manhattan	0060 0691		
Marantz	0060		
Marelli	0110		
Mark	0060 0240 0239 0397 0032		
Masuda	0241 0032 0394		



Neufunk	0060 0032 0579 0633
New Tech	0060 0032 0579 0366 0240 0471
New World	0241
Nicamagic	0239
Nikkai	0095 0241 0060 0240 0287 0055 0058 0360 0239 0032 0059
Noblex	0060 0287
Noblisko	0125 0099 0093 0239
Nogamatic	0422 0524 0132 0219 0591
Nokia	0384 0186 0503 0372 0571 0515 0382 0496 0569 0362 0231 0397 0654 0629 0369
Nordmende	0132 0524 0310 0422 0219 0366 0221 0236 0591 0583 0218 0060 0358
Novatronic	0060 0128 0397
Oceanic	0590 0186 0423 0384 0317 0231 0586
Odeon	0287
Okano	0393 0060 0287 0095
Omega	0287
Onwa	0394 0625 0241 0456 0604
Opera	0060
Optimus	0273 0189
Optonica	0116
Orbit	0060
Orion	0202 0258 0317 0200 0343 0378 0034 0060 0032 0344 0387 0234 0319 0125 0500 0466 0579 0678 0287 0435
Orline	0060 0241
Ormond	0408 0691
Osaki	0095 0241 0055 0240 0287 0516 0299 0060 0435 0295 0397 0234
Osio	0060
Oso	0241
Osume	0180 0095 0059 0055 0241
Otto	
Versand	0033 0528 0059 0116 0535 0060 0579 0558 0218 0372 0577 0214 0384 0258 0132 0236 0317 0249 0270 0326 0343 0240
Pael	0239
Palladium	0393 0060 0214 0528 0033 0223 0441 0577 0579 0270 0350 0372 0110 0186 0236 0240 0434 0678 0542
Palsonic	0287 0435 0060 0240 0400
Panama	0032 0240 0287 0239 0060 0270
Panasonic	0249 0673 0273 0149 0263 0297 0237 0236 0384 0260 0390 0363 0539 0060 0186 0571
Panavision	0060 0434
Pathe	
Cinema	0186 0261 0239 0423 0343 0315 0372
Pathe	
Marconi	0228 0236 0524 0132 0219 0221 0356 0422 0260 0591
Pausa	0032
Perdio	0095 0343 0186 0060
Perfekt	0060
Pershin	0423
Phase	0055
Philco	0110 0107 0097 0441 0099 0236 0270 0275 0186 0393 0060 0168
Philharmonic	0240
Philips	0060 0579 0035 0036 0346 0577 0214 0066 0110 0216 0366 0397
Phoenix	0060 0110 0343 0509 0393 0408 0239 0186 0095
Phonola	0060 0579 0035 0036 0110 0216 0239
Pilot	0060 0579 0062
Pioneer	0189 0060 0451 0393 0366 0384 0132
Pionier	0393 0509
Plantron	0060 0287 0032
Playsonic	0240
Policom	0591
Poppy	0032
Portland	0397 0062
Powerpoint	0510
Prandoni-	
Prince	0270 0539 0384 0236 0386 0099
Precision	0240
Prima	0055 0032 0287
Prinz	0095 0372 0217
Profex	0032 0186 0454
Profitronic	0060 0125
Proline	0344 0095 0060 0035 0648
Prosonic	0060 0237 0239 0393 0397 0602 0394 0691
Protech	0060 0240 0032 0270 0372 0125 0287 0454 0441 0360 0691
Provision	0522 0060
Pye	0060 0397 0579 0035 0036 0110
Pymi	0032
Quadra	
Vision	0423
Quasar	0270 0273
Quelle	0060 0033 0034 0524 0132 0535 0558 0372 0577 0214 0384 0055 0059 0240 0270 0097 0107 0350 0329 0093 0127 0128 0180 0218 0223 0236 0275 0287 0313 0691
Questa	0059 0055
R-Line	0060
Radialva	0132 0241 0454 0186 0060
Radiola	0060 0579 0035 0346
Radiomarelli	0110 0224 0539 0270 0060
RadioShack	0060 0055 0062

Radiotone	0032 0060 0451 0393	Serino	0478 0633
	0602 0441 0287 0435	Sharp	0116 0180 0059 0062
	0671		0317 0676 0076 0117
Rank	0093		0279 0216 0209
RCA	0583 0648 0358 0116	Shorai	0317 0202
Realistic	0055 0062	Siam	0060
Recor	0060	Siarem	0186 0110 0125 0236
Rectiligne	0060	Siemens	0214 0558 0577 0223
Rediffusion	0224 0384 0571 0059		0218 0236 0350 0351
Redstar	0060		0180 0055 0169 0060
Reflex	0060	Siera	0060 0579 0035
Revox	0060 0393	Siesta	0393
Rex	0328 0229 0386 0434	Silva	0239 0060
	0270 0186 0282	Silver	0059 0060 0384 0202
RFT	0110 0315 0393 0451	Simpson	0209
	0095 0287	Singer	0110 0125 0270 0423
Rhapsody	0239		0458 0032 0060
Roadstar	0032 0287 0241 0441	Sinudyne	0200 0110 0258 0125
	0060		0236 0317 0319 0186
Robotron	0110		0384 0539 0372 0033
Rodex	0060		0229 0060
Roxy	0471	Skantic	0380 0379
Royal Lux	0444 0393 0435	Sky	0060
Saba	0648 0310 0236 0110	Sogera	0343
	0422 0186 0132 0524	Solavox	0055 0384 0095 0186
	0539 0366 0384 0521		0571
	0219 0221 0358 0228	Sonawa	0241
	0591 0571	Sonitron	0231 0393 0362 0240
Sagem	0478 0633 0305	Sonneclair	0060
Saisho	0258 0539 0200 0032	Sonoko	0060 0032 0287 0305
	0034 0240 0454 0186		0240
	0287 0234 0377	Sonolor	0231 0590 0186 0423
Salora	0313 0217 0569 0372		0528 0033 0571 0384
	0186 0379 0382 0384	Sontec	0060 0393 0317
	0387 0539 0386 0396	Sony	0528 0033 0034 0059
	0571 0362		0125 0097
Sambers	0236 0539 0099 0125	Sound	
Sampo	0055 0062	& Vision	0125 0241 0397
Samsung	0060 0579 0610 0032	Soundesign	0202 0209
	0240 0471 0393 0287	Soundwave	0060 0343 0441 0055
	0113 0239 0313 0055	Spectra	0032
	0095 0231 0667	Ssangyong	0055 0032
Sandra	0239 0240	Stag	0055
Sanela	0261	Standard	0241 0032 0240 0343
Sansui	0060 0394		0060 1060 0397
Santon	0032	Starlite	0032 0186 0060 0287
Sanyo	0231 0180 0315 0059	Stenway	0305 0241
	0034 0393 0362 0095	Stern	0328 0229 0282 0186
	0239 0240 0127 0236		0386
	0068 0169 0032 0186	Strato	0060 0287 0032
	0396 0060 0578	Sunkai	0317 0378 0344 0478
Save	0060		0241 0258 0060 0510
SBR	0060 0579 0035	Sunstar	0394 0060 0032 0602
Schaub		Sunwood	0060 0032
Lorenz	0372 0571 0629	Superla	0539 0239
Schneider	0060 0579 0035 0326	SuperTech	0032 0060 0239 0579
	0372 0542 0417 0375		0241
	0359 0282 0346 0366	Supra	0397 0032 0062
	0240 0270 0394 0241	Susumu	0358
	0384 0186 0691 0671	Sutron	0032
Scott	0202	Swissline	0270
Sears	0194 0202	Sydney	0239 0240
SEG	0240 0287 0032 0270	Symphonic	0194
	0059 0125 0385 0186	Sytong	0239
	0060 0239 0691 0510	Tactus	0295
SEI	0110 0125 0033 0186	Tandberg	0390 0434 0132 0360
	0539 0372 0236 0317		0219 0385 0384
	0319 0229 0060	Tandy	0241 0095 0240 0270
Seleco	0328 0229 0386 0282		0299 0116
	0385 0186 0434	Tashiko	0059 0066 0240 0169
Sencora	0032		0193 0055 0239 0382
Sentra	0299 0058 0241 0032		0186

Tatung	0095 0539 0240 0295 0272 0060 0034 0267
Teac	0060 0535 0478 0287 0032 0194 0435 0372
TEC	0240 0299 0032 0270 0494 0358 0360 0282
Tech Line	0060 0691
Techica	0241
Technema	0343
Technics	0273
TechniSat	0678
Tedalex	0240
Teiron	0032
Teknika	0202 0209 0062
Teleavia	0132 0524 0310 0219 0422 0228 0356 0263 0513 0591
Telecor	0060 0186 0241 0240 0282 0417
Telefunken	0132 0524 0521 0494 0422 0310 0097 0107 0124 0358 0275 0285 0329 0096 0366 0219 0060 0500 0509 0589 0591 0648
Telefusion	0060
Telegazi	0060 0186 0282 0241 0287
Telemeister	0343 0060
Telesonic	0060
Telestar	0060
Teletech	0032 0270 0360 0060 0691
Teleton	0240 0298 0229 0186 0372 0282 0209 0059
Televideon	0343 0186 0239
Televiso	0423
Temco	0317
Tempest	0032 0060
Tennessee	0060
Tensai	0127 0241 0060 0240 0317 0343 0032 0128 0397 0394 0400 0270
Tenson	0343 0032
Tevion	0542 0060 0671 0691
Textet	0240 0397 0032
Thomson	0310 0422 0132 0524 0356 0494 0358 0219 0221 0228 0260 0366 0060 0513 0591 0583 0648
Thorn	0216 0096 0213 0261 0215 0097 0107 0522 0060 0127 0358 0535 0382 0295 0397 0058 0576
Tokai	0095 0060 0471 0360 0186 0240 0397 0032
Tokyo	0239 0058 0471
Tomashi	0305 0241
Toshiba	0058 0576 0531 0266 0059 0093 0125 0240
Towada	0372 0125 0240
Toyoda	0032
Trakton	0287
Trans	
Continens	0240 0060
Tranasonic	0060 0478 0610 0535
Transtec	0239
Trident	0539 0240
Tristar	0241 0216
Triumph	0200 0539 0369 0579 0060 0266
Uher	0099 0060 0229 0343 0326 0397 0441 0509 0393 0282
Ultra	0215
Ultravox	0110 0125 0397 0270 0239 0186 0236 0060
Unic Line	0060 0496
United	0060
Universum	0369 0128 0558 0218 0496 0384 0270 0515 0503 0393 0223 0441 0034 0169 0535 0317 0059 0180 0055 0093 0186 0287 0127 0060 0444 0434 0313 0275 0097 0329 0236 0350 0351 0033 0528 0099 0372 0240 0524 0132 0385 0360 0200 0654 0691
Univox	0360 0110 0060 0186 0261
Vestel	0060 0186 0240
Vexa	0032 0060
Victor	0076
Videologique	0239 0241 0240
VideoSystem	0060
Videotechnic	0239 0343 0240 0397
Videoton	0379 0186 0454
Vidikron	0125
Vidtech	0059
Viper	0360
Visiola	0239
Vision	0060 0343
Vistar	0299 0229 0384
Vortec	0060
Voxson	0110 0099 0060 0386 0441
Waltham	0240 0299 0379 0441 0310 0408 0060
Watson	0060 0343 0186 0241 0328 0236 0602 0542 0417 0032 0691
Watt Radio	0236 0125 0372 0186 0239
Wega	0236 0059 0110 0060
Wegavox	0032
Weltblick	0060 0343
Wharfedale	0060 0542
White	
Westinghouse	0343 0239 0060 0360
Winco	0435
Windstar	0305
Xrypton	0060
Yamishi	0305 0478 0241 0060 0240
Yokan	0060
Yoko	0240 0060 0241 0287 0032 0454 0444 0393 0328 0362 0239 0270
Yorx	0241
Zanussi	0229 0328 0386 0240
Zenor	0362

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## Video Recorders

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Adelsound	0027
Adyson	0095

Aiwa	0330 0023 0064 0232	Elbe	0301 0061
	0371 0375 0060	Elcatech	0095
Akai	0129 0338 0076 0064	Elin	0263
	0043 0375 0263	Elsay	0095
Akiba	0095	Elta	0095 0301
Akitan	0318	Emerson	0095 0068
Akura	0095 0064	ESC	0301 0263 0043
Alba	0301 0095 0356 0357	Etzuko	0095
	0232 0375 0215 0043	Europhon	0043
	0318 0023 0338 0371	Fenner	0043
Allorgan	0263	Ferguson	0130 0064 0343 0344
Allstar	0345 0104		0076 0516 0023 0301
Ambassador	0043	Fidelity	0023 0095 0348 0263
Amstrad	0023 0348 0355 0301	Finlandia	0127 0104 0065 0189
	0095		0023 0071
Anitech	0095 0345	Finlux	0023 0104 0127 0065
Ansonic	0027		0128
Aristona	0104	Firstline	0095 0232 0371 0066
ASA	0060 0104		0060 0068 0065 0111
Asuka	0095 0060 0104 0023		0316 0301
	0061	Fisher	0070 0127 0077 0069
Audiosonic	0301		0061 0043
Audioton	0043	Flint	0232
AWA	0098 0060 0301 0066	Frontech	0043 0345
Baird	0129 0301 0127 0130	Fujitsu	0023
	0064 0023	Funai	0023
Bang &		Galaxi	0023
Olufsen	0522	GBC	0043
Basic Line	0301 0232 0043 0095	GEC	0104
Bestar	0301 0043	General	0043
Black		General	
Panther	0301	Technic	0371
Blaupunkt	0249 0104 0177 0250	Genexxa	0127
	0185 0029 0218 0426	Goldhand	0095
	0057	GoldStar	0060 0023
Blue Sky	0060 0232 0371 0095	Goodmans	0023 0095 0263 0301
	0375		0085 0060 0043 0366
Bondstec	0043 0095		0104 0371 0232 0426
Bosch	0177		0316
Brandt	0064 0210 0229 0343	Gradiente	0031
	0344 0516	Graetz	0064 0127 0263 0367
Brinkmann	0232 0371	Granada	0127 0069 0071 0104
Brionvega	0367		0308 0433 0029 0263
Bush	0095 0301 0338 0356		0060 0249 0065 0023
	0357 0232 0375 0316	Grandin	0095 0060 0043 0023
	0023 0371		0301 0232
Canon	0190	Grundig	0030 0218 0104 0370
Carena	0232 0104		0372 0249 0029 0426
Carrefour	0068		0343 0371
Casio	0023	Hanimex	0318 0375
Cathay	0301	Hanseatic	0060 0232 0301 0104
Catron	0043	Hantor	0043
CGE	0064 0023	Harwood	0095
Cimline	0095 0232	HCM	0095 0345
Clatronic	0043 0095	Hinari	0027 0095 0316 0231
Combitech	0375		0232 0375 0064 0345
Condor	0043 0301		0111 0366 0301
Crown	0301 0095 0043 0345	Hisawa	0232 0375
Daewoo	0301 0043 0068 0232	Hitachi	0065 0189 0128 0064
	0375		0308 0433 0023 0263
Dansai	0095 0301		0104 0027 0127 0426
Daytron	0301	Hornophone	0104
de Graaf	0065 0189 0104 0127	Hypson	0095 0232 0301 0375
	0071 0069	Impego	0043
Decca	0023 0064 0104 0031	Imperial	0023 0263
	0090 0371	Ingersoll	0027 0232 0263
Deitron	0301	Inno Hit	0043 0263 0301 0345
Denko	0095		0095
Diamant	0060	Interbuy	0060 0095
Domland	0232	Interfunk	0104 0127
Dual	0064 0104 0301 0023	Internal	0301
Dumont	0023 0104 0127 0128	International	0301

Intervision	0023 0301 0060 0232 0371	Oceanic	0023 0071 0129 0104 0127 0064 0069
Irradio	0095 0060 0104	Okano	0338 0232 0371 0095 0345 0301
ITT	0129 0064 0069 0367 0407 0127 0263	Orion	0232 0027 0111 0231 0318 0375 0366 0371 0356 0357
ITT Nokia	0071	Orson	0023
ITV	0301 0060 0043	Osaki	0023 0060 0095
JVC	0064 0090 0031 0229 0407	Osume	0316
Kaisui	0095	Otake	0356 0357
Karcher	0301	Otto	
Kendo	0129 0232 0338 0076 0371 0095 0060	Versand	0104
Kenwood	0064 0061	Palladium	0095 0338 0060 0064 0029 0232 0027 0263
Kimari	0070	Palsonic	0095 0023
Kneissel	0375 0232 0371 0060	Panasonic	1185 0185 0477 0249 0250 0482
Korpel	0095	Pathe	
Kuba	0070	Cinema	0027 0066
Kuwa	0249	Pathe	
Kyoto	0095	Marconi	0064
Leyco	0095 0111	Perdio	0023 0232
LG	0060 0023 0301	Philco	0061 0095
Lifetec	0232 0371	Philips	0104 0029 0169 0426
Loewe	0104 0029 0060 0128 0027 1185 0185 0477	Phonola	0104
Logik	0027 0263 0095 0129 0232	Pioneer	0090 0104 0065
Lumatron	0301	Portland	0043 0301
Luxor	0129 0069 0066 0095 0085 0127 0070 0071	Prinz	0023 0111
Magnavox	0104 0426	Profex	0345
Manesth	0095 0068 0104 0232	Profitronic	0104 0263
Marantz	0104 0061 0029 0085 0318 0232 0169	Proline	0023 0316 0343 0344
Mark	0301 0043	Proscoc	0301
Marquant	0345	Prosonic	0232 0301 0023
Matsui	0232 0027 0215 0318 0371 0060 0231 0111 0263 0375 0355 0023	Protech	0104
Mediator	0104	Provision	0301
Medion	0232 0371 0375	Pye	0104
Melectronic	0023 0060 0061	Quelle	0029 0231 0104 0367
Memorex	0127 0023 0069 0060 0071 0070	Radialva	0060 0095 0104 0071
Memphis	0095	Radiola	0104
Metz	0218 0370 0104 1185 0185 0477 0249 0250 0482 0029	Rank	0064
Micormay	0371	Rex	0064 0407
Micromaxx	0232	RFT	0043 0426 0095
Migros	0023	Roadstar	0263 0095 0060 0301
Minerva	0218	Royal	0345 0095
Mitsubishi	0066 0090 0098 0104 0196	Saba	0064 0210 0229 0343 0344 0407 0517 0085 0301
Multitech	0023 0095 0043 0127 0345	Saisho	0027 0232 0231 0215 0111 0371
Murphy	0023	Salora	0069 0066 0129 0127
NAD	0127	Samsung	0263 0455
National	0249 0185	Samurai	0043
NEC	0064 0061 0090 0063 0127 0060	Sansui	0064 0090 0129 0095 0345 0371
Neckermann	0064 0231 0029 0104 0367	Sanwa	0027
Nesco	0095 0023 0375	Sanyo	0127 0069 0070 0071 0090
Neufunk	0232	Saville	0375 0301 0263
Nikkai	0043 0095 0301	SBR	0104
Nokia	0127 0129 0338 0064 0301 0069 0367 0263 0071 0065 0104	Scan Sonic	0263
Nordmende	0064 0407 0343 0344 0210 0517 0551 0090 0516	Schaub	
		Lorenz	0064 0367 0127 0023 0129 0338
		Schneider	0095 0023 0060 0104 0301 0263
		Seaway	0301
		SEG	0095 0263 0345 0301 0098
		Sei-	
		Sinudyne	0027 0104

Seleco 0064 0031 0407 0043  
 0060  
 Semivox 0068 0232  
 Sentra 0095 0043 0316  
 Setron 0095  
 Sharp 0071 0085 0060  
 Shintom 0095 0127  
 Shivaki 0060  
 Shorai 0111 0027  
 Siemens 0218 0029 0060 0127  
 0030 0104 0169 0077  
  
 Siera 0104  
 Silva 0060  
 Silver 0301  
 Sinudyne 0027 0104  
 Solavox 0043  
 Sonitron 0070  
 Sonneclair 0095  
 Sonoko 0301  
 Sonolor 0071  
 Sontec 0060  
 Sony 0056 0057 0055 0034  
 0129 1055  
 Soundwave 0060 0232  
 Ssangyong 0095  
 Standard 0301  
 Starlite 0060 0127  
 Stern 0301  
 Sunkai 0232 0318 0371 0301  
 Sunstar 0023  
 Suntronic 0023  
 Sunwood 0095  
 Supra 0060 0263  
 Symphonic 0023 0095  
 Taisho 0027 0232 0111  
 Tandberg 0301  
 Tashiko 0023 0071 0263 0104  
 0060  
 Tatung 0023 0064 0104 0076  
 0071 0066 0232 0371  
 0375  
 Teac 0064 0023 0301 0060  
 0104 0330  
 TEC 0043 0301 0095  
 TechniSat 0371 0232  
 Teleavia 0064 0210  
 Telefunken 0210 0064 0343 0344  
 0407 0516 0517 0301  
 Teletech 0345 0095 0301 0023  
 Tempest 0043  
 Tenosal 0095  
 Tensai 0023 0345 0060 0095  
 0027  
 Tevion 0371 0232  
 Thomson 0064 0407 0343 0229  
 0344 0516 0517 0551  
 Thorn 0064 0127 0060  
 Tokai 0095 0060 0064 0127  
 Tokiwa 0095  
 Topline 0371  
 Toshiba 0068 0064 0407 0066  
 0104 0426  
 Towada 0345 0095  
 Trakton 0043  
 Triumph 0231  
 TVA 0043  
 Uher 0060 0263 0367  
 Ultravox 0367 0301  
 Unitech 0263  
 United  
 Quick Star 0301

Universum 0023 0348 0104 0263  
 0060 0129 0371 0218  
 0029 0232 0345 0426  
 Victor 0031 0090  
 Watson 0104 0375  
 Weltblick 0060  
 White Westing-  
 house 0367  
 Yamishi 0095 0301  
 Yokan 0095  
 Yoko 0060 0095 0043 0263  
 ZX 0232

## Satellite Receivers

Afsat 0855 0691  
 Aegir 0543  
 AGS 0691  
 Akai 0538 0223  
 Akena 0691  
 Alba 0444 0538 0478 0277  
 0385 0542 0636 0736  
 0757  
 Aldes 0311 0385 0542 0543  
 0757  
 Allantide 0356  
 Allsat 0090 0223 0387 0206  
 0757  
 Allsonic 0311 0392  
 Alltech 0609 0736  
 Alpha 0691 0223  
 Altai 0419  
 Amitronica 0736  
 Ampere 0391 0419 0852 0155  
 Amstrad 0368 0870 0484 0103  
 0275 0266 0361 0712  
 0736 0765 0419 0155  
 0905 0908 0886  
 Anglo 0736  
 Ankaro 0311 0240 0392 0243  
 0542 0736  
 Anttron 0444 0206 0636  
 Apollo 0444  
 Arcon 0391 0240 0396 0715  
 Armstrong 0266 0223  
 ASA 0420  
 Asat 0396 0223  
 ASLF 0736  
 AST 0374 0344  
 Astacom 0691 0733  
 Aston 0481  
 Astra 0131 0396 0553 0562  
 0541 0367 0536 0266  
 0630 0369  
 Astro 0196 0381 0543 0636  
 0392 0524 0681  
 Athena 0691  
 Atlantide 0356  
 Audioton 0387 0636  
 Aura 0562  
 Austar 0665 0886 0306 0520  
 0902  
 Avalon 0419  
 Axiel 0691  
 Axis 0553 0392 0389 0857  
 Barcom 0240 0131  
 Beko 0478  
 Best 0240 0392  
 Blaupunkt 0196  
 Blue Sky 0736 0908

Boca	0266 0612 0536 0706	Eurocrypt	0478 0131
	0817 0852 0155	Eurodec	0549
Brain Wave	0355 0715	Europa	0243 0612 0524 0223
Broadcast	0369		0886 0630
Broco	0553 0736	European	0817
BskyB	0870	Eurosat	0266 0609
BT	0538 0691 0733	Eurosky	0266 0392 0630 0310
Bubu Sat	0736		0155 0138
Bush	0277 0090 0351 0545	Eurostar	0562 0630 0903
	0206 0385	Exator	0444 0538 0636
BWV	0715	Extra Sat	0542
Cambridge	0367 0538 0706 0524	Fagor	0615 0387
Canal		Fenner	0691
Satellite	0876 0315	Ferguson	0090 0206 0478 0359
Carat.Som	0389		0637 0351 0734
Channel		Fidelity	0275 0484 0391 0524
Master	0385	Finlandia	0478 0131
Chess	0180 0628	Finlux	0478 0367 0131 0437
CityCom	0417 0841 0138 0630		0596
Clark	0834 0636	Flair Mate	0736
Clatronic	0355	Foxtel	0902 0743 0520
Clemens		Fracarro	0444 0691 0894 0148
Kamphus	0525 0356 0857	France	
CNT	0543	Satellite	0320
Colombia	0691	Freecom	0358 0444 0757
Columbus	0320	FTE	0391 0354 0706 0612
Commander	0243		0392 0736 0679 0834
Commlink	0311	Fuba	0320 0240 0392 0419
Communicado	0389		0444 0440 0196 0437
Comtec	0311 0389		0195 0596 0417 0131
Condor	0392 0630	G-Sat	0206 0356
Connexions	0481 0419 0392	Galaxi	0240
Conrad	0630 0612 0596 0138	Galaxis	0389 0311 0387 0553
	0392 0524		0615 0392 0679 0836
Contec	0417 0612 0389		0715 0857 0856 0886
Cosat	0615 0387		0306 0876
Crown	0266 0541	Galaxisat	0344
Cryptovision	0478	Gardiner	0841
D-box	0746 0896	GMI	0266
Daewoo	0396 0736 0444	Goldbox	0315 0876
Dansat	0090 0206	GoldStar	0358
Daumling	0817	Goodmans	0478
DDC	0385	Granada	0131
Delfa	0886	Grandin	0440 0107 0159
Dew	0389 0396	Grundig	0196 0351 0870 0594
Diamond	0609		0162 0163 0773 0828
Discoverer	0628		0368 0902 0908
Discovery	0691	Hanseatic	0628
Diseqc	0733	Hantor	0444 0355
Disk		Hanuri	0543
Express	0240	Harting und	
Distratel	0107 0908	Helling	0356 0525
Distrisat	0223 0615	Hase & Igel	0715
DNR	0715	Heliocom	0391 0630
DNT	0223 0481 0419	Hinari	0385 0206 0444
DST	0444	Hirschmann	0310 0356 0420 0196
Dual	0396		0596 0518 0465 0525
Dune	0392		0524 0148 0419 0733
Echostar	0419 0691 0736 0894	Hisawa	0355
	0876	Hitachi	0351 0478
EIF	0697 0440	HNE	0765
Einhell	0356 0266 0444 0311	Houston	0615 0243 0691 0484
	0275 0536 0541 0736	Humax	0886 0306
	0524 0817 0155	Huth	0369 0630 0355 0387
Elekta	0543		0389 0311 0243 0612
Elsat	0712		0525 0266 0817 0155
Elta	0387 0444 0223 0392	Hypson	0440 0159
Emanon	0444	Imex	0107 0159
Emme Esse	0392 0525 0351 0894	Imperial	0277
Engel	0736	International	0155
EP Sat	0478	Intertronic	0266
Eurieult	0440 0159 0107 0908	Intervision	0615 0651 0630 0387

Invideo	0894	Melectronic	0841
Italtel	0894	Metronic	0542 0444 0440 0266
ITT Nokia	0131 0351 0596 0195		0636 0311 0543 0107
	0478 0420 0896 0746		0159 0841 0908
	0844	Metz	0196
Johansson	0355 0387	Micro	0630 0636
JOK	0713 0733	Micro	
JVC	0538 0594	electronic	0736
K-SAT	0736	Micro	
Kamm	0903 0736	Technology	0356 0562 0736 0553
Kathrein	0354 0381 0196 0417	Microtec	0736
	0465 0527 0503 0223	Minerva	0594
	0645 0115 0356 0681	Mitsubishi	0478
	0736 0636 0691 0841	Mitsumi	0536
	0921	Morgan's	0266 0223 0536 0706
Kennex	0148		0817 0736 0387 0612
Key West	0817		0852 0155
Kiton	0137	Multichoice	0665 0902
Kolon	0444	Multistar	0354
Konig	0630	Multitec	0180
Koscom	0857	Muratto	0358 0344
Kosmos	0354 0465 0358 0525	Mysat	0736
KR	0636 0615	Navex	0355
Kreiselmeier	0196	Network	0206
Kyostar	0444 0636	Neuhaus	0553 0524 0243 0612
L&S			0715 0615 0679 0736
Electronic	0392		0857 0630
Lasat	0536 0543 0392 0630	Neusat	0715 0736 0857
	0389 0266 0706 0138	NextWave	0755
	0155 0180	Nikko	0266 0736 0746 0757
Lemon	0715 0143	Nokia	0351 0131 0746 0596
Lenco	0358 0243 0396 0444		0896 0195 0478 0420
	0736 0715 0553 0521		0844 0774 0876
	0138 0392 0630	Nomex	0521
Lennox	0615	Norco	0521
Lenson	0524	Nordmende	0385 0478 0543 0444
Lexus	0223		0637 0277
Leyco	0538	Nova	0902
LG	0358	Novis	0355
Lifesat	0628 0392	NTC	0525
Lion	0356	Oceanic	0609 0356
Loewe	0266	Octagon	0396 0444 0243 0389
Lorenzen	0243 0715 0817 0630		0636
	0765 0155	Okano	0266 0525 0354
Lorraine	0358	OnDigital	0156 0157 0264 0774
Lupus	0392		0160
Luxor	0195 0131 0368 0596	Optex	0417 0615 0387 0440
	0896 0524		0815 0854
M&B1	0562 0628	Optima	0525
Macab	0609 0904	Optus	0902
Manata	0733 0691 0159 0440	Orbit	0374 0396 0356
	0736	Orbitech	0524 0612 0564 0444
Manhattan	0478 0615 0351 0543		0285 0180
	0387 0521 0733 0691	Origo	0520 0521
	0857	Orion	0545
Marantz	0223	OSAT	0368
Marave	0440	Oxford	0367 0538 0691
Mascom	0465 0834	Pace	0520 0478 0351 0870
Maspro	0115 0359 0351 0518		0090 0206 0359 0814
	0773 0736 0196 0594		0818 0264 0743 0262
	0715		0910
Master's	0417	Pacific	0609
Matsui	0367 0594 0733 0385	Packsat	0733
	0196	Palcom	0320 0385
Max	0630	Palladium	0266 0594 0444 0541
MB	0628		0524
Mediabox	0315 0876	Palsat	0524 0320
Mediamarkt	0266	Panasat	0902 0638
MediaSat	0553 0524 0315 0876	Panasonic	0478 0351 0870
Medion	0736 0392	Panda	0478 0090 0131 0630
Medison	0736		0196 0857
Mega	0223	Paristad	0440



Patriot	0538 0691	Servi Sat	0159 0440 0615
Philips	0223 0315 0243 0206	Siemens	0196 0706
	0478 0351 0690 0773	Silva	0358
	0733 0636 0828 0612	Skantin	0736
	0240 0691 0876 0594	Skardin	0553
	0196 0156 0157 0841	Skinsat	0524
	0921	SKR	0736
Phoenix	0389 0206	Sky	0879 0910 0870
Phonotrend	0311 0615 0387 0525	Skymaster	0311 0542 0628 0651
	0679 0886		0736 0903 0180
Pioneer	0876 0315	Skymax	0223 0356 0562
PK Sat	0356	SkySat	0180 0628
Planet	0894	Skytwin	0542
Polytron	0417 0419	Skyvision	0387
Predki	0355 0444	SL	0715 0155 0765 0266
Preisner	0266 0536 0612 0155	Smart	0155
	0419 0706 0817	Sony	0870 0727 0478 0876
Premier	0615 0525 0834	SR	0536
Premiere	0315 0876 0896	Starion	0562
Pro Visat	0757	Starland	0736
Profile	0691	Starring	0355
Prosat	0277 0311 0385 0651	Strong	0444 0636 0392 0543
Prosonic	0765		0396 0902 0895 0148
Protek	0609 0356		0876
Proton	0356	STVI	0440 0159
Provision	0543	Sumida	0266
Pye	0594	Sunny Sound	0392
Pyxis	0854 0857	Sunsat	0736 0553
Quadral	0385 0542 0311 0392	Sunstar	0536 0266 0392 0817
	0612 0651 0691 0733		0155
Quelle	0275 0630 0765 0138	Tagra	0387 0320
Radiola	0223	Tantec	0320 0351 0359 0478
Radix	0419 0481 0905	Tatung	0478
Rainbow	0636	Techniland	0369 0615 0387
Red Star	0392	TechniSat	0285 0524 0564 0481
Redpoint	0553		0541 0223
RFT	0564 0311 0243 0223	Technowelt	0630
Roadstar	0736	Teco	0396 0266 0536
Rover	0651 0736	Telasat	0628 0138 0630
Saba	0277 0206 0543 0351	Teleciel	0636 0757
	0359 0637 0713 0757	Telecom	0736
	0733 0715 0908 0138	Teledirekt	0206
	0630	Telefunken	0444 0351 0733
Sabre	0478	Teleka	0266 0465 0636 0419
Sagem	0843		0773 0715 0524 0285
Sakura	0389		0630 0857
Salora	0131 0195 0627	Telemaster	0543
Samsung	0310 0444 0876	Telesat	0628 0630
SAT	0374 0344 0484 0524	Telestari	0524
	0385	Teletech	0903 0137
Sat Partner	0355 0525 0444 0358	Televest	0478 0524 0351 0904
	0543 0636 0757 0834	Telewire	0615 0679 0387
Sat Team	0391 0736	Tensai	0396 0355
Satcom	0369 0628 0630	Thomson	0478 0637 0736 0315
Satec	0206 0351 0736		0876 0351 0138 0630
Satelco	0392		0843 0691 0733
Satford	0369	Thorens	0609
Satline	0651	Thorn	0351 0478
Satmaster	0369	Tioko	0417 0266
Schäcke	0636	Tokai	0223
Schneider	0690 0828 0921 0733	Tonna	0369 0478 0615 0691
Schwaiger	0417 0206 0628 0527		0387 0524 0736 0857
	0612 0755 0180 0630	Toshiba	0478 0160
	0908 0715	TPS	0843
SCS	0138	Trendline	0536
Sedea		Trendplain	0536
Electronique	0444 0148	Triad	0374 0358 0344 0356
Seemann	0419 0266 0553 0538		0395
SEG	0444 0392 0562 0355	Triasat	0437 0524
	0628 0541 0542 0765	Triax	0437 0524 0138 0223
	0137		0419 0736 0876
Seleco	0615 0387 0894	Tristar	0396

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