

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



**TOTAL CONTROL**

**URC - 4160**

**INSTRUCTION MANUAL**

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## About your TOTAL CONTROL

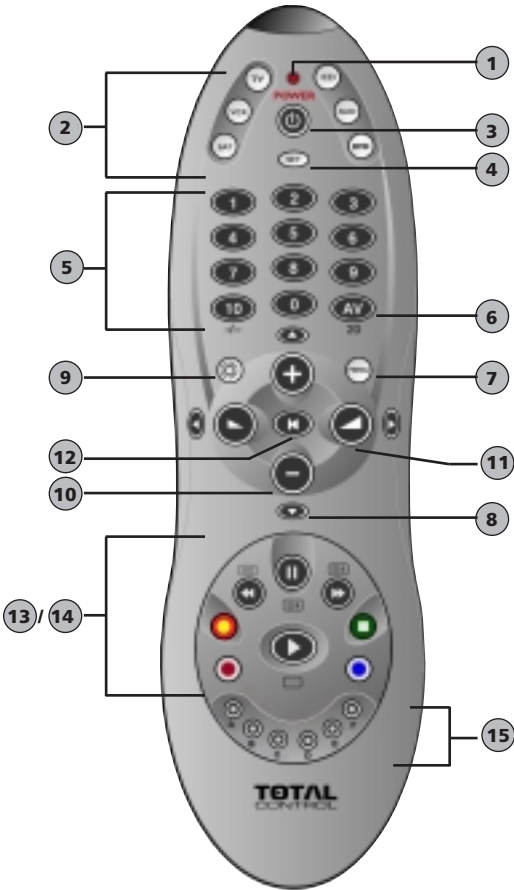
By choosing the TOTAL CONTROL Universal Remote Control you have opted for easy use. Made of the strictest quality, it will provide long-term satisfaction. Please read these enclosed instructions carefully before putting your TOTAL CONTROL to use.

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 is designed to let you use one remote to operate your Video and Audio equipment; any device designed to be operated by an infrared signal. You can choose any combination of six devices you would like to operate.

The key benefit of this product is that it's equipped with the "learning feature", which means that you can copy almost any function from your original (working) remote control onto your new TOTAL CONTROL.

Your TOTAL CONTROL needs 4 new AAA/LR3 batteries.



# Installing the Batteries

Your TOTAL CONTROL needs four new AAA/LR3 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, SAT, CD, AUD and DVD 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 VCR you can operate you Video Recorder, 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. Also, if your original remote required that you press an "EXIT" key during Menu operation, the AV key can be used for this function. In VCR mode it obtains the TV/VCR function.
- 7 **Menu Key**  
The Menu key controls the same function as it did on your original remote. If available on your original remote control, this key will also allow you to access the Surround Sound mode of your device.
- 8 **Directional Keys**  
If available on your original remote, these keys will allow you to navigate through the menu and the Surround Sound mode of your device.

Onkyo	0158
Panasonic	0252
Philips	0052 0252
Pioneer	0050 0122
Revox	0052
Sansui	0052
Sony	0266
Technics	0252
Thorens	0052
Universum	0052
Victor	0296

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## Laser Disc

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Denon	0082
Grundig	0082
Mitsubishi	0082
NAD	0082
Pioneer	0082
Telefunken	0082

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## Digital Audio Tape

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Grundig	0181
Harman/ Kardon	0181
Marantz	0181
Philips	0181
Technics	0181

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## DVD

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3DLAB	0562
Denon	0513
Grundig	0562
Hitachi	0596
JVC	0581
Kenwood	0557 0513
Magnavox	0526
Marantz	0562
Micromedia	0526
Micromega	0562
Mitsubishi	0544
Onkyo	0526
Optimus	0548
Panasonic	0513
Philips	0562 0526
Pioneer	0548 0594
Proscan	0545
RCA	0545
REC	0513
Samsung	0596
Sony	0556
Technics	0513
Thomson	0574
Toshiba	0526
Yamaha	0513
Zenith	0526

- 9 **Light Key**  
The Light key allows you to illuminate the entire TOTAL CONTROL keypad. See page 7 for more details.
- 10 **Programme (+/-) keys**  
The Programme (+/-) keys operate just as those on your original remote.
- 11 **Volume (+/-) keys**  
The Volume (+/-) keys operate just as those on your original remote.
- 12 **Mute key**  
The Mute key operates the same function as it did on your original remote. Also, if your original remote control required that you press an "OK" or "ENTER" key during Menu operation, the Mute key can be used for this function.
- 13 **Video Recorder Keys**  
After pressing the VCR key, the Video Recorder keys operate the functions of your Video Recorder. To prevent accidental recording, the Record key must be pressed **twice** to start recording.
- 14 **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.

- 15 **Custom keys (A – F)**  
The custom keys are spare keys which give you the possibility to customize the TOTAL CONTROL 6 according to your original remote control using the "Learning feature" (see page 12).

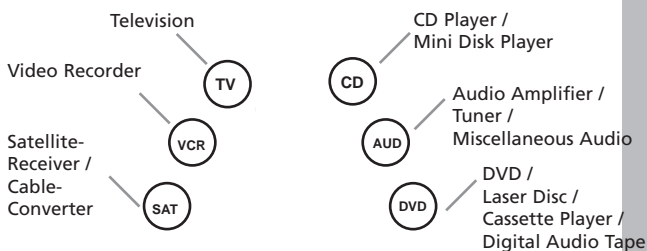
# Setting up your devices

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

- 1 Find your device code in the code section (page 15 – 29). 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.
- Remember to press the correct device key before operating your device. Only one device (CD, amplifier, cassette etc.) can be assigned to a device key. If your original remote operates more than one device (for example; a receiver, CD player and cassette player in one remote), you need to set up each device separately.
- 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, SAT, CD, AUD or DVD see page 9.

# The Light key

The TOTAL CONTROL allows you to illuminate the entire keypad with the press of a key. This backlit feature can be switched on or off with the Light key on your TOTAL CONTROL keypad.









If the backlit feature is switched on, every time a key is pressed, the keypad will automatically light up for about 10 seconds.

To preserve battery life, turn off the Light feature when not needed.

## 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.
-



# 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 the all 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.



---

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

---

## Quick Code Reference

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

Device type

Code

1. ....

--	--	--	--

2. ....

--	--	--	--

3. ....

--	--	--	--

4. ....

--	--	--	--

5. ....

--	--	--	--

6. ....

--	--	--	--

# Changing a Device key

It is possible to change any device key.

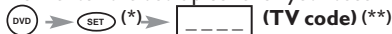
## Example 1:

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

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

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

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

 **DVD** → **SET** (\*) →  (TV code) (\*\*)

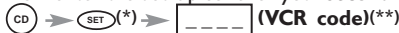
## Example 2:

To program a **second Video recorder** on the CD key (for example), you need to change the CD key into a VCR key, so press:

1      **SET** (\*) → **9** **9** **2** → **VCR** → **CD** (\*\*)

**The CD key has now become a second VCR key.**

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

 **CD** → **SET** (\*) →  (VCR code) (\*\*)

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

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

# Resetting a Device Key

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

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

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

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

# 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).

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

VCR	TV volume up and down, mute
SAT	TV volume up and down, mute
DVD	TV volume up and down, mute

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

To punch through to AMP/TUN volume while in CD mode press: **SET(\*) 9 9 3 AUD 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).

## Auto Scan

Your TOTAL CONTROL comes with a special Auto Scan function which lets you "scan" through every programme available on your device. For example, to scan the programmes on your TV:

- 1 Aim the TOTAL CONTROL at your TV. Press the **TV** key. Press and release **SET** then press the **MUTE** key.

The TOTAL CONTROL will send the command to advance through all the programmes available on your Television stopping at each programme for about three seconds. Remember, you must aim the TOTAL CONTROL at your device the entire time you are using Auto Scan.

- 2 When you find a programme you would like to watch, simply press **any key** on the TOTAL CONTROL key pad to stop the Auto Scan feature.

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- Auto Scan may not work with devices that did not have programme (+/-) keys on the original remote control.

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# Device Sleptimer

If your TV or Satellite has a "Sleptimer" function built in, you can access this function with your TOTAL CONTROL remote. To do so:

- 1 Make sure your TV (or Satellite) is switched on.
- 2 Press the device key (**TV** or **SAT**).
- 3 Point the TOTAL CONTROL at your TV (or Satellite) and press and release the **SET** key then press **POWER**. You should see the Sleptimer activate on your TV screen. To increase the timer, simply press **POWER** again (within 5 seconds) until the timer gets to the desired time.

- To deactivate the Sleptimer, repeat steps 1-3 above. During step 3, continue pressing Power (within 5 seconds) until the timer indicates zero minutes.
- Depending on how you used sleptimer on the original remote, you might need to access sleptimer in a different way (through menu for example).

## TOTAL CONTROL Sleptimer

If your device does not have a sleptimer function built in, you can install the TOTAL CONTROL Sleptimer function. To do so:

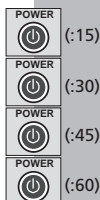
- 1 Press the device key (**TV, SAT, CD** or **AUD**).
- 2 Then, press and hold the **SET** key until the red light blinks twice.
- 3 Press **9 7 0**. The red light will blink twice again.

- It is only necessary to follow steps 1, 2 and 3 once. For subsequent use of the "TOTAL CONTROL sleptimer", simply follow steps 4, 5, 6 and 7.
- To switch the TOTAL CONTROL back to "Device Sleptimer", repeat steps 1, 2 and 3. The red light will blink 4 times.

### Setting the TOTAL CONTROL Sleptimer:

It is possible to set the timer for 15, 30, 45 or 60 minutes.

- 4 Make sure that your device is switched on.
- 5 Press the device key (**TV, SAT, CD** or **AUD**).
- 6 Now, press and release the **SET** key, then press **POWER**. The red light will blink once, which indicates the timer is set for 15 minutes. To increase the timer, simply press **POWER** again (this must be done within 5 seconds). The red light will blink twice indicating the timer is set for 30 minutes (2 x 15). You can press **POWER** to a maximum of four times which will set the timer to 60 minutes.
- 7 Once you have set the timer to the desired time, set your TOTAL CONTROL down, pointing it at your device. When the programmed amount of time has elapsed, the TOTAL CONTROL will send the command for POWER, hence turning off your device.



- The red light will blink every 15 seconds indicating that the remote is in sleptimer mode.
- To deactivate the Sleptimer, simply press any key on the TOTAL CONTROL.
- Remember, when using the "TOTAL CONTROL Sleptimer", you must set the remote so it is pointing at your device.
- The sleptimer can only be set for only one device at a time.

# The Learning Feature

After you have set up the TOTAL CONTROL for your device, you may find that there are one or more keys that you had on the original remote control, which do not have a place on the TOTAL CONTROL keypad.

The custom keys have been especially provided for this feature. By using these keys, you will not have to sacrifice an existing function on the TOTAL CONTROL keypad. If you need to learn more than six functions per mode (max. approximately 25 functions), you need to place the learned function on another key (see "Shifted Learning" on the next page).

Before you start:

- Make sure your original remote is working correctly.
- Make sure neither your TOTAL CONTROL, nor your original remote control is pointing at your device.

**Example: To copy the "mono/stereo" function from your original TV remote control onto the A-key of your TOTAL CONTROL.**

- 1 Place the TOTAL CONTROL and your original remote control on a flat surface. Make sure the ends which you normally point at your device are facing each other. Keep the remotes at a distance of 2 to 5 cm.**
- 2 Press and hold the SET key** until the red light blinks twice. The red light will blink once then twice.
- 3 Press 9 7 5** (the red light blinks twice).
- 4 Press the device key on the TOTAL CONTROL remote** to select the mode to which you want to copy the learned function (**Example: TV key**).
- 5 Press the key on the TOTAL CONTROL remote** where you want to place the learned function (**Example: A key**). The red light will flash rapidly.
- 6 Press and hold the key (on your original remote control)** that you want to copy until the red light blinks twice (**Example: mono/stereo key**).
- 7** If you want to copy other functions within the same mode, simply repeat steps 5 and 6 pressing the next key you want to copy by learning.
- 8** To exit the learning mode, **press and hold the SET key** until the red light blinks twice.

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- Learning is mode specific. To access your learned function, press the appropriate device key first.

---



## Shifted Learning:

To install a Shifted learning function, simply follow steps 1 – 8 on the previous page, only press the SET key before step 5.

To access the shifted function, press the SET key and then the key you have learned on.

### To delete a learned function:

- 1 Press and hold the **SET** key until the red light blinks twice. The red light will blink once then twice.
- 2 Press **9 7 6** (the red light blinks twice).
- 3 Press the **device key** in which the function will be deleted.
- 4 Press **twice on the learned key** which will be deleted. (\*)
- 5 If there is another key that you want to delete, repeat steps 1 – 4.
- 6 The original functions of the TOTAL CONTROL will now be present.

(\*) To delete a Shifted Learned function, press the SET key once before you press the learned key to be deleted.

### To delete all learned functions across all modes:

- 1 Press and hold the **SET** key until the red light blinks twice. The red light will blink once then twice.
- 2 Press **9 8 0** (the red light will blink four times).

- 
- During steps 2 – 7 (page 12), you have approximately 10 seconds to conduct each step. If there is a gap of more than 10 seconds between two steps, you will have to start again from step number 2.
  - If you learn a function on another key besides the "A - F keys", the original TOTAL CONTROL feature automatically becomes shifted. Press the SET key then the key to access it (this excludes the POWER, Mute, Channel and Volume keys).
  - The learning feature is mode specific. Therefore you can place one learned function per mode on the same key.
  - If a Shifted Learned function is placed on the Mute, Channel and Volume keys then the "Auto Scan" and "Colour & Brightness" features will be sacrificed.
  - The TOTAL CONTROL can learn approximately 25 functions.
  - You can replace a learned function by placing another learned function on top.
  - Learning should not be done in direct sunlight or under incandescent lights.
  - Make sure you are using new batteries before following the instructions above.
  - Upon changing the batteries, your learned functions will be retained.
-

# 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 4 fresh, new AAA/LR3 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 4160

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: 1800 812 261

Opening hours: 8.00 am - 5.00 pm (Mon.-Fri.)

## Televisions

A.R.	
Systems	0060 0375
Accent	0060
Acec	0035
Admiral	0110 0116 0441 0328 0287
Adyson	0240 0239
Agashi	0239 0287
AGB	0539
Agef	0110
Aiko	0239 0032 0060 0394 0058 0095 0384 0287 0240
Aim	0060
Akai	0384 0231 0456 0394 0060 0058 0032 0095 0241 0186 0539 0625 0579 0571 0503 0240 0654 0239 0287 0400 0629
Akiba	0241 0305 0478 0060
Akito	0295 0060
Akura	0241 0382 0305 0032 0435 0287 0060 0691
Alaron	0202 0239
Alba	0241 0258 0032 0441 0393 0378 0394 0060 0239 0270 0186 0510 0059 0691 0602
Alcyon	0099
Allorgan	0229 0317 0240
Allstar	0060
Amplivision	0240 0423 0343 0393
Amstrad	0200 0032 0539 0287 0377 0241 0394 0385 0435 0060
Anam	0060 0032
Anam National	0060
Anglo	0032 0287
Anitech	0032 0099 0287 0060
Ansonic	0393 0315 0125 0032 0060 0397 0186 0434 0282 0270 0035
Apollo	0496
Arc en Ciel	0422 0132 0591 0356
Arcam	0239 0422 0240
Ardem	0509
Aristona	0060 0579 0035
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
Audioton	0240 0509 0393 0287
Ausind	0099
Autovox	0110 0229 0260 0099 0372 0240 0270
AWA	0034 0721 0059 0032 0180 0397 0435 0060 0239 0629
Ayomi	0261
Baird	0132 0216 0366 0213 0215 0095 0096 0240 0231
Bang & Olufsen	0588 0110
Barco	0403 0186
Basic Line	0241 0032 0397 0060 0590 0186 0305
Bastide	0240
Baur	0326 0218 0535 0060 0577 0384 0372 0528 0033
Bazin	0240
Beko	0393 0509 0060 0629
Beon	0060 0441
Best	0360 0393
Bestar	0060 0393 0397
Binatone	0240
Black Star	0270
Blacktron	0305
Blackway	0305
Blaupunkt	0577 0218 0223 0350 0351
Blue Sky	0241 0305 0478 0060 0510 0691
Blue Star	0305
Bondstec	0270
Boots	0295 0240
BPL	0305 0060
Brandt	0132 0422 0260 0356 0310 0358 0591 0648
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 0397 0542 0287 0384 0510 0231 0317 0240 0287
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 0270 0261
CGE	0097 0107 0099 0270 0186 0441 0393
Cimline	0032 0258 0241
City	0032
Clarivox	0441 0093
Clatronic	0241 0287 0393 0394 0240 0099 0270 0060 0032 0125 0343 0602
CMS	
hightec	0240
Concorde	0032
Condor	0239 0270 0305 0343 0060 0393 0032 0125 0434 0441
Contec	0239 0032 0180 0034 0059



Continental					Europa	0060
Edison	0132	0260	0422	0356	Europhon	0060 0539 0125 0240
	0310	0510	0591			0270 0186
Cosmel	0032	0360			Expert	0229 0423 0282 0186
Crosley	0110	0270	0097	0107		0328
	0099	0186			Exquisit	0060 0270
Crown	0032	0393	0509	0099	Family Life	0060
	0060	0382	0602	0441	Fenner	0397 0032
	0231	0510	0076		Ferguson	0096 0310 0215 0213
CS						0358 0261 0216 0132
Electronics	0270	0239	0241			0648
CTC	0270				Fidelity	0216 0239 0394 0186
Curtis						0287 0060
Mathes	0116	0168			Filsai	0240
Cybertron	0241				Finlandia	0231 0369 0382 0571
Daenyk	0202					0384
Daewoo	0032	0060	0239	0397	Finlux	0128 0127 0060 0369
	0241	0240	0522			0240 0095 0186 0099
Dainichi	0241	0239				0539 0093 0110 0202
Dansai	0060	0287	0058	0239		0125 0434 0654 0515
	0032					0503
Dansette	0435				Firstline	0317 0344 0239 0060
Dantax	0393	0509				0397 0270 0032 0186
Datsura	0231					0125 0240 0434 0372
Dawa	0060					0261 0095 0258 0691
Daytron	0032	0397	0060			0231
de Graaf	0231	0067	0250	0186	Fisher	0127 0240 0059 0231
	0571					0393 0068 0110 0180
Decca	0095	0539	0060	0295		0384 0186 0326 0372
	0240					0095
Deitron	0060				Flint	0060 0478 0095 0241
Denko	0287				FNR	0125
Denon	0168				Forgestone	0216
DER	0216	0213			Formenti	0110 0239 0343 0186
Derwent	0224					0099
Desmet	0343	0060			Fortress	0116 0110
Diamant	0060				Fraba	0393 0060
Digiline	0060				Friac	0032 0060 0125
Dixi	0032	0060	0270	0240	Frontech	0270 0287 0372 0240
Domland	0417					0032
Doric	0224				Fujitsu	0202 0229 0095 0125
Drean	0060					0240 0186 0032 0375
DTS	0032				Fujitsu	
Dual	0372	0240	0366	0282	General	0032 0240
	0542	0060	0375	0417	Funai	0287 0202 0317
	0422	0326	0186		Galaxi	0125 0060
Dumont	0110	0127	0125	0240	Galaxis	0393 0441 0060 0125
	0093	0095			GBC	0186 0032 0397 0241
Dux	0060	0035			GE	0132 0305 0310 0358
Dynatron	0060					0366
Elbe	0458	0261	0282	0385	Geant	
	0315	0393	0186	0060	Casino	0186 0423
	0241	0434	0633		GEC	0066 0095 0186 0384
Elcit	0110	0270	0539	0125		0539 0060 0240 0372
	0186				Geloso	0270 0032 0186 0397
Elekta	0287	0305			General	0613 0132 0310 0494
ELG	0060				General	
Elin	0239	0060	0128	0127	Technic	0032
	0571	0384	0328	0372	Genexxa	0241 0060 0435
	0186	0032			Goldhand	0239
Elite	0241	0060			Goldline	0360
Elman	0125				GoldStar	0060 0393 0032 0400
Elta	0032	0287	0239			0240 0270 0239 0186
Emerson	0200	0110	0270	0060		0384 0067
	0202	0394	0093	0305	Goodmans	0059 0095 0060 0032
	0343					0287 0539 0202 0397
Emperor	0305					0510 0394 0522 0579
Erres	0060	0035				0366 0258 0058 0503
ESC	0060					0240 0358
Etron	0060	0032	0186		Gorenje	0393
Eurofeel	0287				GPM	0241
Euroman	0239	0287	0060	0240	Gradiente	0060 0076 0193
	0393				Graetz	0060 0384 0394

Granada	0060 0423 0249 0379	Internal	0060
	0382 0035 0068 0095	Intervision	0305 0240 0478 0060
	0131 0231 0240 0099		0394 0400 0542 0509
	0059 0539 0224 0496		0393 0417 0510 0241
	0358	Irradio	0125 0186 0287 0270
Grandin	0305 0241 0423 0060		0032 0060 0241 0270
	0032 0343 0186 0478		0099
	0602 0633	Isukai	0241 0060 0305
Gronic	0125 0240	ITC	0240
Grundig	0218 0577 0510 0093	ITS	0060 0394 0241 0305
	0099 0260 0060 0579		0287 0239
Halifax	0287 0239 0240	ITT	0186 0503 0372 0384
Hampton	0239 0240		0496 0571 0590 0216
Hanimex	0317		0369 0231 0202
Hanseatic	0060 0315 0305 0372	ITT Nokia	0384 0571 0186 0496
	0186 0384 0417 0343		0503 0372 0369 0231
	0393 0032 0317 0240		0202 0590 0629 0633
	0542 0110		0654
Hantarex	0032 0060 0125	ITV	0287 0060 0270
Hantor	0060	Jean	0059
Harley		JEC	0058
Davidson	0202	JVC	0676 0076 0117 0213
Harwood	0032 0435 0060		0059 0215 0216 0394
Hauppauge	0060		0241 0629
HCM	0287 0032 0305 0435	Kaisui	0241 0305 0060 0239
	0240 0241 0441 0060		0478 0240 0032
Hema	0240 0032	Kamp	0239
Hemmer-		Kapsch	0229 0186 0384 0282
mann	0372		0127
Hifivox	0132 0422 0591	Karcher	0060 0393 0305 0125
Highline	0287 0060		0633 0287
Hikona	0241	Kawasho	0239
Hinari	0231 0202 0059 0060	KB	
	0241 0032 0186 0378	Aristocrat	0186
	0466 0510 0258 0317	Kendo	0385 0258 0270 0125
Hisawa	0305 0241 0423 0478		0060 0393 0434 0633
Hit	0110		0400 0542
Hitachi	0248 0059 0372 0379	Kennedy	0229 0186 0458
	0067 0066 0496 0186	Kingsley	0239
	0366 0601 0240 0250	Kneissel	0458 0282 0315 0393
	0217 0539 0095 0504		0261 0060 0434 0633
	0522 0060 0586 0168	Kolster	0060 0125 0372
	0128 0579 0571	Konka	0241 0394 0060
Hitachi		Kontakt	0510
Fujian	0131	Korpel	0060
Hitsu	0032 0478 0241	Korting	0110 0393 0343
Hornyphone	0060 0035	Kosmos	0060
Hoshai	0241 0478	Kotron	0435 0287
Huanyu	0397 0239	Kraking	0261
Hygashi	0240 0239	KTV	0240
Hyper	0032 0239 0240 0270	Kyoshu	0287 0435 0441
Hypersonic	0384	Kyoto	0186
Hypson	0060 0287 0240 0305	Lecson	0060
	0478 0423 0261	Lemair	0434
Iberia	0060	Lenco	0032 0397 0127 0186
ICE	0287 0240 0060 0394		0060
	0241 0239 0032	Lenoir	0032
Ices	0241 0239	Lesa	0270
Imperial	0060 0270 0393 0441	Leyco	0287 0095 0060 0317
	0186 0097 0107 0099		0602
	0372	LG	0060 0393 0032 0400
Indesit	0260		0240 0270 0239 0186
Indiana	0060		0384
Ingelen	0510 0633	Liesenkotter	0060 0350 0351 0035
Ingersoll	0032	Lifetec	0032 0287 0542 0060
Inno Hit	0032 0095 0060 0241		0397 0241 0691 0535
	0240 0099 0539 0270	Lloyd's	0032
Innovation	0542	Loewe	0535 0060 0110 0315
Interactive	0434		0393
Interbuy	0032 0287 0270	Logik	0034 0216 0394
Interfunk	0060 0035 0110 0535	Logix	0691
	0298 0350 0186 0384	Luma	0229 0328 0060 0385
	0393 0132 0591		0186 0282 0434 0397
			0032

Lumatron	0229 0328 0060 0385	NAT	0237 0249
	0186 0282 0384 0240	National	0260 0237 0249
	0287 0096	NEC	0193 0059 0343 0478
Lux May	0060 0032		0032 0397 0240 0060
Luxor	0217 0260 0503 0515		0034
	0372 0384 0231 0379	Neckermann	0060 0393 0528 0033
	0571 0186 0369 0496		0223 0577 0579 0186
	0202		0350 0441 0372 0110
Madison	0060		0270 0240 0434
Magnadyne	0110 0270 0539 0125	NEI	0060 0360 0394
	0186	Nesco	0270 0202
Magnafon	0539 0099 0125 0239	Netsat	0060
Magnavox	0059 0202 0060	Network	0360
Mandor	0287	Neufunk	0060 0032 0579 0633
Manesth	0060 0258 0240 0287	New Tech	0060 0032 0579 0366
	0343 0058 0317		0240
Manhattan	0060 0691	New World	0241
Marantz	0060	Nicamagic	0239
Marelli	0110	Nikkai	0095 0241 0060 0240
Mark	0060 0240 0239 0397		0287 0058 0360 0239
	0032		0032 0059
Masuda	0241 0032 0394	Noblex	0060 0287
Matsui	0258 0200 0032 0378	Nobliko	0125 0099 0093 0239
	0034 0095 0059 0060	Nogamatic	0422 0132 0591
	0579 0510 0240 0377	Nokia	0384 0186 0503 0372
	0317 0394 0466 0602		0571 0515 0382 0496
	0478 0295 0372 0539		0231 0397 0654 0629
	0058 0186 0231 0068		0369
	0218 0358	Nordmende	0132 0310 0422 0366
McMichael	0066		0591 0218 0060 0358
Mediator	0060 0579 0035	Novatronic	0060 0128 0397
Medion	0060 0691 0542	Oceanic	0590 0186 0423 0384
Megas	0633		0317 0231 0586
Megatron	0168	Odeon	0287
Melectronic	0369 0060 0535 0132	Okano	0393 0060 0287 0095
	0366 0270 0128 0127	Omega	0287
	0397 0032 0240 0503	Onwa	0394 0625 0241
	0515 0239 0434 0372	Opera	0060
Melvox	0423	Optimus	0273
Memorex	0032 0273	Optonica	0116
Memphis	0360 0095 0032	Orbit	0060
Mercury	0060 0032	Orion	0202 0258 0317 0200
Metz	0110 0218 0470 0262		0343 0378 0034 0060
	0577 0298 0390 0411		0032 0344 0125 0466
	0610		0579 0287 0435
Micromaxx	0060 0691	Orline	0060 0241
Minerva	0510 0218 0093 0099	Ormond	0691
	0577 0260	Osaki	0095 0241 0240 0287
Minoka	0435 0060 0382		0060 0435 0295 0397
Mitsubishi	0131 0535 0060 0116	Osio	0060
	0377 0110 0059 0224	Oso	0241
	0260 0216	Osume	0180 0095 0059 0241
Mivar	0315 0393 0099 0239	Otto	
	0632	Versand	0033 0528 0059 0116
Monaco	0032		0535 0060 0579 0218
Morgan's	0060		0372 0577 0384 0258
Motion	0099		0132 0317 0249 0270
Motorola	0116		0326 0343 0240
MTC	0393 0372 0535 0239	Pael	0239
MTEC	0295	Palladium	0393 0060 0528 0033
Multi-			0223 0441 0577 0579
broadcast	0216		0270 0350 0372 0110
Multi-			0186 0240 0434 0542
standard	0125	Palsonic	0287 0435 0060 0240
Multitec	0060 0691		0400
Multitech	0240 0372 0032 0239	Panama	0032 0240 0287 0239
	0270 0125 0509 0393		0060 0270
	0060	Panasonic	0249 0673 0273 0149
Murphy	0127 0239 0095 0186		0237 0384 0260 0390
Musikland	0241		0539 0060 0186 0571
NAD	0384	Panavision	0060 0434
Naiko	0060	Pathe	
Nakimura	0397 0060	Cinema	0186 0261 0239 0423
			0343 0315 0372

Pathe					Rediffusion	0224	0384	0571	0059
Marconi	0132	0356	0422	0260	Redstar	0060			
	0591				Reflex	0060			
Pausa	0032				Revox	0060	0393		
Perdio	0095	0343	0186	0060	Rex	0328	0229	0434	0270
Perfekt	0060					0186	0282		
Pershin	0423				RFT	0110	0315	0393	0095
Philco	0110	0107	0097	0441		0287			
	0099	0270	0186	0393	Rhapsody	0239			
	0060	0168			Roadstar	0032	0287	0241	0441
Philharmonic	0240					0060			
Philips	0060	0579	0035	0036	Robotron	0110			
	0577	0593	0066	0110	Rodex	0060			
	0216	0446	0366	0397	Royal Lux	0393	0435		
Phoenix	0060	0110	0343	0509	Saba	0648	0310	0110	0422
	0393	0239	0186	0095		0186	0132	0539	0366
Phonola	0060	0579	0035	0110		0384	0358	0591	0571
	0216	0239			Sagem	0478	0633	0305	
Pilot	0060	0579			Saisho	0258	0539	0200	0032
Pioneer	0060	0446	0393	0366		0034	0240	0186	0287
	0384	0132				0377			
Pionier	0393	0509			Salora	0217	0372	0186	0379
Plantron	0060	0287	0032			0382	0384	0539	0571
Playsonic	0240				Sambers	0539	0099	0125	
Policom	0591				Samsung	0060	0579	0610	0667
Poppy	0032					0032	0240	0393	0287
Portland	0397					0239	0095	0231	
Powerpoint	0510				Sandra	0239	0240		
Prandoni-					Sanela	0261			
Prince	0270	0539	0384	0099	Sansui	0060	0394		
Precision	0240				Santon	0032			
Prima	0032	0287			Sanyo	0231	0180	0169	0315
Prinz	0095	0372	0217			0059	0034	0393	0095
Profex	0032	0186				0239	0240	0127	0068
Profitronic	0060	0125				0032	0186	0060	
Proline	0344	0095	0060	0035	Save	0060			
	0648				SBR	0060	0579	0035	
Prosonic	0060	0237	0239	0393	Schaub				
	0397	0602	0394	0691	Lorenz	0372	0571	0629	
Protech	0060	0240	0032	0270	Schneider	0060	0579	0035	0326
	0372	0125	0287	0441		0372	0542	0417	0375
	0360	0691				0282	0366	0240	0270
Provision	0522	0060				0394	0241	0384	0186
Pye	0060	0397	0579	0035		0691			
	0110				Scott	0202			
Pymi	0032				Sears	0202			
Quadra					SEG	0240	0287	0032	0270
Vision	0423					0059	0125	0385	0186
Quasar	0270	0273				0060	0239	0691	0510
Quelle	0060	0033	0034	0132	SEI	0110	0125	0033	0186
	0535	0372	0577	0384		0539	0372	0317	0229
	0059	0240	0270	0097		0060			
	0107	0350	0093	0127	Seleco	0328	0229	0282	0385
	0128	0180	0218	0223		0186	0434		
	0287	0691			Sencora	0032			
Questa	0059				Sentra	0058	0241	0032	
R-Line	0060				Serino	0478	0633		
Radialva	0132	0241	0186	0060	Sharp	0116	0279	0180	0059
Radiola	0060	0579	0035			0317	0676	0076	0117
Radiomarelli	0110	0224	0539	0270		0216			
	0060				Shorai	0317	0202		
RadioShack	0060				Siam	0060			
Radiotone	0032	0060	0393	0602	Siarem	0186	0110	0125	
	0441	0287	0435		Siemens	0577	0223	0218	0350
Rank	0093					0351	0180	0060	
RCA	0648	0358	0116		Siera	0060	0579	0035	
Recor	0060				Siesta	0393			
Rectiligne	0060				Silva	0239	0060		

Silver	0059 0060 0384 0202	Telefunken	0132 0494 0422 0310
Singer	0110 0125 0270 0423		0097 0107 0124 0358
	0458 0032 0060		0285 0096 0366 0060
Sinudyne	0200 0110 0258 0125		0509 0591 0648
	0317 0186 0384 0539	Telefusion	0060
	0372 0033 0229 0060	Telegazi	0060 0186 0282 0241
Skantic	0379		0287
Sky	0060	Telemeister	0343 0060
Sogera	0343	Telesonic	0060
Solavox	0384 0095 0186 0571	Telestar	0060
Sonawa	0241	Teletech	0032 0270 0360 0060
Sonitron	0231 0393 0240		0691
Sonneclair	0060	Teleton	0240 0298 0229 0186
Sonoko	0060 0032 0287 0305		0372 0282 0059
	0240	Televideon	0343 0186 0239
Sonorlor	0231 0590 0186 0423	Televiso	0423
	0528 0033 0571 0384	Temco	0317
Sontec	0060 0393 0317	Tempest	0032 0060
Sony	0528 0033 0034 0059	Tennessee	0060
	0125 0097	Tensai	0127 0241 0060 0240
Sound &			0317 0343 0032 0128
Vision	0125 0241 0397		0397 0394 0400 0270
Soundesign	0202	Tenson	0343 0032
Soundwave	0060 0343 0441	Tevion	0542 0060 0691
Spectra	0032	Texet	0240 0397 0032
Ssangyong	0032	Thomson	0310 0422 0132 0356
Standard	0241 0032 0240 0343		0494 0358 0260 0366
	0060 0397		0060 0591 0648
Starlite	0032 0186 0060 0287	Thorn	0216 0096 0213 0261
Stenway	0305 0241		0215 0097 0107 0522
Stern	0328 0229 0282 0186		0060 0127 0358 0535
Strato	0060 0287 0032		0382 0295 0397 0058
Sunkai	0317 0378 0344 0478	Tokai	0095 0060 0360 0186
	0241 0258 0060 0510		0240 0397 0032
Sunstar	0394 0060 0032 0602	Tokyo	0239 0058
Sunwood	0060 0032	Tomashi	0305 0241
Superla	0539 0239	Toshiba	0058 0531 0266 0059
SuperTech	0032 0060 0239 0579		0093 0125 0240
	0241	Towada	0372 0125 0240
Supra	0397 0032	Toyoda	0032
Susumu	0358	Trakton	0287
Sutron	0032	Trans	
Swissline	0270	Continens	0240 0060
Sydney	0239 0240	Tranasonic	0060 0478 0610 0535
Sytong	0239	Transtec	0239
Tactus	0295	Trident	0539 0240
Tandberg	0390 0434 0132 0360	Tristar	0241 0216
	0385 0384	Triumph	0200 0539 0369 0579
Tandy	0241 0095 0240 0270		0060 0266
	0116	Uher	0099 0060 0229 0343
Tashiko	0059 0066 0240 0193		0326 0397 0441 0509
	0239 0382 0186		0393 0282
Tatung	0095 0539 0240 0295	Ultra	0215
	0060 0034	Ultravox	0110 0125 0397 0270
Teac	0060 0721 0535 0478		0239 0186 0060
	0287 0032 0435 0372	Unic Line	0060 0496
	0194	United	0060
TEC	0240 0032 0270 0494	Universum	0369 0128 0218 0496
	0358 0360 0282		0384 0270 0515 0503
Tech Line	0060 0691		0393 0223 0441 0034
Techica	0241		0535 0317 0059 0180
Technema	0343		0093 0186 0287 0127
Technics	0273		0060 0434 0097 0350
Tedalex	0240		0351 0033 0528 0099
Teiron	0032		0372 0240 0132 0385
Teknika	0202		0360 0200 0654 0691
Teleavia	0132 0310 0422 0356	Univox	0360 0110 0060 0186
	0591		0261
Telecor	0060 0186 0241 0240	Vestel	0060 0186 0240
	0282 0417	Vexa	0032 0060

Victor 0076  
 Videologique 0239 0241 0240  
 VideoSystem 0060  
 Videotechnic 0239 0343 0240 0397  
 Videoton 0379 0186  
 Vidikron 0125  
 Vidtech 0059  
 Viper 0360  
 Visiola 0239  
 Vision 0060 0343  
 Vistar 0229 0384  
 Vortec 0060  
 Voxson 0110 0099 0060 0441  
 Waltham 0240 0379 0441 0310  
 0060  
 Watson 0060 0343 0186 0241  
 0328 0602 0542 0417  
 0032 0691  
 Watt Radio 0125 0372 0186 0239  
 Wega 0059 0110 0060  
 Wegavox 0032  
 Weltblick 0060 0343  
 Wharfedale 0060 0542  
 White Westing-  
 house 0343 0239 0060 0360  
 Winco 0435  
 Windstar 0305  
 Xrypton 060  
 Yamishi 0305 0478 0241 0060  
 0240  
 Yokan 0060  
 Yoko 0240 0060 0241 0287  
 0032 0393 0328 0239  
 0270  
 Yorx 0241  
 Zanussi 0229 0328 0240

## Video Recorders

Adelsound 0027  
 Adyson 0095  
 Aiwa 0330 0023 0064 0371  
 0375 0060  
 Akai 0338 0129 0064 0043  
 0375 0263 0076  
 Akiba 0095  
 Akura 0095 0064  
 Alba 0301 0095 0356 0357  
 0375 0043 0023 0338  
 0371  
 Allorgan 0263  
 Allstar 0104  
 Ambassador 0043  
 Amstrad 0023 0301 0095  
 Anitech 0095  
 Ansonic 0027  
 Aristona 0104  
 ASA 0060 0104  
 Asuka 0095 0060 0104 0023  
 0061  
 Audiosonic 0301  
 Audioton 0043 0098  
 AWA 0060 0301 0066  
 Baird 0301 0127 0130 0064  
 0023  
 Bang &  
 Olufsen 0522  
 Basic Line 0301 0043 0095

Bestar 0301 0043  
 Black  
 Panther 0301  
 Blaupunkt 0104 0177 0185 0029  
 0218 0057  
 Blue Sky 0060 0371 0095 0375  
 Bondstec 0043 0095  
 Bosch 0177  
 Brandt 0064 0343 0516  
 Brinkmann 0371  
 Bush 0095 0301 0338 0356  
 0357 0375 0316 0023  
 0371  
 Carena 0104  
 Carrefour 0068  
 Casio 0023  
 Cathay 0301  
 Catron 0043  
 CGE 0064 0023  
 Cimline 0095  
 Clatronic 0043 0095  
 Combitech 0375  
 Condor 0043 0301  
 Crown 0301 0095 0043  
 Daewoo 0301 0043 0068 0375  
 Dansai 0095 0301  
 Daytron 0301  
 de Graaf 0065 0104 0127 0071  
 Decca 0023 0064 0104 0090  
 0371  
 Deitron 0301  
 Denko 0095  
 Diamant 0060  
 Dual 0064 0104 0301 0023  
 Dumont 0023 0104 0127  
 Elbe 0301 0061  
 Elcotech 0095  
 Elin 0263  
 Elsay 0095  
 Elta 0095 0301  
 Emerson 0095 0068  
 ESC 0301 0263 0043  
 Etzuko 0095  
 Europhon 0043  
 Fenner 0043  
 Ferguson 0130 0064 0343 0516  
 0023 0301  
 Fidelity 0023 0095 0263  
 Finlandia 0127 0104 0065 0023  
 0071  
 Finlux 0023 0104 0127 0065  
 Firstline 0095 0371 0066 0060  
 0068 0065 0316 0301  
 Fisher 0070 0127 0061 0043  
 Frontech 0043  
 Fujitsu 0023 0075  
 Funai 0023  
 Galaxi 0023  
 GBC 0043  
 GEC 0104  
 General 0043  
 General  
 Technic 0371  
 Genexxa 0127  
 Goldhand 0095  
 GoldStar 0060 0023  
 Goodmans 0023 0095 0263 0301  
 0060 0043 0104 0371  
 0316  
 Graetz 0064 0127 0263

Granada	0127 0071 0104 0029	NAD	0127
	0263 0060 0065 0023	National	0185
Grandin	0095 0060 0043 0023	NEC	0064 0061 0090 0127
	0301		0060
Grundig	0218 0104 0370 0029	Neckermann	0064 0029 0104
	0343 0371	Nesco	0095 0023 0375
Hanimex	0375	Nikkai	0043 0095 0301
Hanseatic	0060 0301 0104	Nokia	0127 0338 0064 0301
Hantor	0043		0263 0071 0065 0104
Harwood	0095	Nordmende	0064 0343 0517 0551
HCM	0095		0090 0516
Hinari	0027 0095 0316 0375	Oceanic	0023 0071 0104 0127
	0064 0301		0064
Hisawa	0375	Okano	0338 0371 0095 0301
Hitachi	0065 0064 0023 0263	Orion	0027 0375 0371 0356
	0104 0027 0127		0357
Hornophone	0104	Orson	0023
Hypson	0095 0301 0375	Osaki	0023 0060 0095
Impego	0043	Osume	0316
Imperial	0023 0263	Otake	0356 0357
Ingersoll	0027 0263	Otto	
Inno Hit	0043 0263 0301 0095	Versand	0104
Interbuy	0060 0095	Palladium	0095 0338 0060 0064
Interfunk	0104 0127		0029 0027 0263
Internal	0301	Palsonic	0095 0023
International	0301	Panasonic	1185 0249 0185 0477
Intervision	0023 0301 0060 0371	Pathe	
Irradio	0095 0060 0104	Cinema	0027 0066
ITT	0064 0127 0263	Pathe	
ITT Nokia	0071	Marconi	0064
ITV	0301 0060 0043	Perdio	0023
JVC	0064 0090	Philco	0061 0095
Kaisui	0095	Philips	0104 0029
Karcher	0301	Phonola	0104
Kendo	0338 0371 0095 0060	Pioneer	0090 0104 0065
Kenwood	0064 0061	Portland	0043 0301
Kimari	0070	Prinz	0023
Kneissel	0375 0371 0060	Profitronic	0104 0263
Korpel	0095	Proline	0023 0316 0343
Kuba	0070	Proscoc	0301
Kyoto	0095	Prosonic	0301 0023
Leyco	0095	Protech	0104
LG	0060 0023 0301	Provision	0301
Lifetec	0371	Pye	0104
Loewe	0104 0029 0060 0027	Quelle	0029 0104
	1185 0185 0477	Radialva	0060 0095 0104 0071
Logik	0027 0263 0095	Radiola	0104
Lumatron	0301	Rank	0064
Luxor	0066 0095 0127 0070	Rex	0064
	0071	RFT	0043 0095
Magnavox	0104	Roadstar	0263 0095 0060 0301
Manesth	0095 0068 0104	Royal	0095
Marantz	0104 0061 0029	Saba	0064 0343 0517 0603
Mark	0301 0043		0301
Matsui	0027 0371 0060 0263	Saisho	0027 0371
	0375 0023	Salora	0066 0127
Mediator	0104	Samsung	0263 0455
Medion	0371 0375	Samurai	0043
Melectronic	0023 0060 0061	Sansui	0064 0090 0095 0371
Memorex	0127 0023 0060 0071	Sanwa	0027
	0070	Sanyo	0127 0070 0071 0090
Memphis	0095		0069
Metz	0218 0370 0104 1185	Saville	0375 0301 0263
	0185 0477 0029	SBR	0104
Micormay	0371	Scan Sonic	0263
Migros	0023	Schaub	
Minerva	0218	Lorenz	0064 0127 0023 0338
Mitsubishi	0066 0090 0104 0098	Schneider	0095 0023 0060 0104
Multitech	0023 0095 0043 0127		0301 0263
Murphy	0023	Seaway	0301

SEG 0095 0263 0301  
 Sei-  
   Sinudyne 0027 0104  
 Seleco 0064 0043 0060  
 Semivox 0068  
 Sentra 0095 0043 0316  
 Setron 0095  
 Sharp 0071 0060 0085  
 Shintom 0095 0127  
 Shivaki 0060  
 Shorai 0027  
 Siemens 0218 0029 0060 0127  
   0104  
 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  
 Soundwave 0060  
 Ssangyong 0095  
 Standard 0301  
 Starlite 0060 0127  
 Stern 0301  
 Sunkai 0371 0301  
 Sunstar 0023  
 Suntronic 0023  
 Sunwood 0095  
 Supra 0060 0263  
 Symphonic 0023 0095  
 Taisho 0027  
 Tandberg 0301  
 Tashiko 0023 0071 0263 0104  
   0060  
 Tatung 0023 0064 0104 0071  
   0066 0371 0375  
 Teac 0064 0023 0301 0060  
   0104 0330  
 TEC 0043 0301 0095  
 TechniSat 0371  
 Teleavia 0064  
 Telefunken 0064 0343 0516 0517  
   0552 0553 0301  
 Teletech 0095 0301 0023  
 Tempest 0043  
 Tenosal 0095  
 Tensai 0023 0060 0095 0027  
 Tevion 0371  
 Thomson 0064 0343 0516 0517  
   0551  
   0064 0127 0060  
 Tokai 0095 0060 0064 0127  
 Tokiwa 0095  
 Topline 0371  
 Toshiba 0068 0064 0066 0104  
 Towada 0095  
 Trakton 0043  
 TVA 0043  
 Uher 0060 0263  
 Ultravox 0301  
 Unitech 0263  
 United  
   Quick Star 0301  
 Universum 0023 0104 0263 0060  
   0371 0218 0029

Victor 0090  
 Watson 0104 0375  
 Weltblick 0060  
 Yamishi 0095 0301  
 Yokan 0095  
 Yoko 0060 0095 0043 0263

## Satellite Receivers

ABSat 0855  
 Aegir 0543  
 Akai 0538 0223  
 Alba 0444 0538 0478 0385  
   0636 0736 0757  
 Aldes 0311 0385 0543 0757  
 Allantide 0356  
 Allsat 0090 0223 0387 0206  
   0757  
 Allsonic 0311 0392  
 Alltech 0667 0609 0736  
 Alpha 0223  
 Altai 0419  
 Amitronica 0736  
 Ampere 0419 0852 0155  
 Amstrad 0368 0870 0484 0275  
   0266 0712 0698 0736  
   0765 0419 0155 0905  
   0908 0886  
 Anglo 0736  
 Ankara 0311 0240 0392 0243  
   0736  
 Anttron 0444 0206 0636  
 Apollo 0444  
 Arcon 0240 0396 0715  
 Armstrong 0266 0223  
 ASA 0420  
 Asat 0396 0223  
 ASLF 0736  
 AST 0374 0344  
 Astacom 0733  
 Astra 0131 0396 0553 0536  
   0266 0630 0369  
 Astro 0196 0381 0543 0636  
   0392 0524 0681  
 Atlantide 0356  
 Audioton 0387 0636  
 Austar 0886 0665 0520  
 Avalon 0419  
 Axis 0553 0392 0389 0857  
 Barcom 0240 0131  
 Beko 0478  
 Best 0240 0392  
 Blaupunkt 0196  
 Blue Sky 0736 0908  
 Boca 0266 0612 0536 0706  
   0817 0852 0155  
 Brain Wave 0355 0715  
 Broadcast 0369  
 Broco 0553 0736  
 BskyB 0870  
 BT 0538 0733  
 Bubu Sat 0736  
 Bush 0090 0206 0385  
 BVV 0715  
 Cambridge 0538 0706 0524  
 Canal  
   Satellite 0876 0315  
 Canary 0667



Carat.Som	0389	Finlandia	0478 0131
Channel		Finlux	0478 0131 0437 0596
Master	0385	Flair Mate	0736
Chess	0628	Foxtel	0902 0520
CityCom	0417 0821 0841 0630	Fracarro	0444 0894 0616
Clark	0636	Freecom	0358 0444 0757
Clatronic	0355	Freesat	0667
Clemens		FTE	0354 0706 0612 0392
Kamphus	0525 0356 0857		0736 0616
CNT	0543	Fuba	0240 0392 0419 0444
Commander	0243		0196 0437 0596 0417
CommLink	0311		0131
Comunicado		G-Sat	0206 0356
	0389	Galaxi	0240
Comtec	0311 0389	Galaxis	0389 0311 0387 0553
Condor	0392 0630		0615 0392 0715 0857
Connexions	0419 0392		0856 0886 0876
Conrad	0630 0612 0596 0392	Galaxisat	0344
	0524	Gardiner	0841
Contec	0417 0612 0389	GMI	0266
Cosat	0615 0387	Goldbox	0315 0876
Crown	0266	GoldStar	0358
Cryptovision	0478	Goodmans	0478
D-box	0896	Granada	0131
Daewoo	0396 0736 0444	Grandin	0107
Dansat	0090 0206	Grundig	0196 0870 0594 0162
Daumling	0817		0773 0828 0368 0908
DDC	0385	Hanseatic	0628
Delfa	0886	Hantor	0444 0355
Dew	0389 0396	Hanuri	0543
Diamond	0609	Harting und	
Discoverer	0628	Helling	0356 0525
Diseqc	0733	Hase & Igel	0715
Disk		Heliocom	0630
Express	0240	Hinari	0385 0206 0444
Distratel	0107 0908	Hirschmann	0310 0356 0420 0421
Distrisat	0223 0615		0196 0596 0616 0518
DNR	0715		0465 0525 0821 0524
DNT	0223 0419		0419 0733
DST	0444	Hisawa	0355
Dual	0396	Hitachi	0478
Dune	0392	HNE	0765
Dynasat	0616	Houston	0615 0243 0484
Echostar	0419 0736 0894 0876	Humax	0886
EIF	0697	Huth	0369 0630 0355 0387
Einhell	0356 0540 0266 0444		0389 0311 0540 0243
	0311 0275 0536 0736		0612 0525 0266 0817
	0524 0817 0155		0155
Elekt	0543	Imex	0107
Elsat	0712	International	0155
Elta	0387 0444 0223 0392	Intertronic	0266
Emanon	0444	Intervision	0615 0651 0630 0387
Emme Esse	0392 0525 0894	Invideo	0894
Engel	0736	Italtel	0894
EP Sat	0478	ITT Nokia	0131 0596 0478 0420
Eurieult	0107 0908		0896
Eurocrypt	0478 0131	Johansson	0355 0387
Europa	0243 0612 0524 0223	JOK	0713 0733
	0886 0630	JVC	0538 0594
European	0817	K-SAT	0736
Eurosat	0266 0609	Kamm	0903 0736
Eurosky	0266 0392 0630 0310	Kathrein	0354 0381 0196 0417
	0155		0465 0527 0503 0616
Eurostar	0630 0903		0223 0645 0115 0356
Eutra	0667 0821		0681 0736 0636 0841
Exator	0444 0538 0636		0921
Fagor	0615 0387	Key West	0817
Ferguson	0090 0206 0478 0359	Kolon	0444
	0637 0734	Konig	0630
Fidelity	0275 0484 0698 0524	Koscom	0857

Kosmos	0354 0465 0358 0525	Neusat	0715 0736 0857
KR	0636 0667 0821 0615	Nikko	0266 0736 0757
Kreiselmeier	0196	Nokia	0131 0596 0896 0478
Kyostar	0444 0636		0420 0876
L&S		Nomex	0521
Electronic	0392	Norco	0521
Lasat	0536 0543 0392 0630	Nordmende	0385 0478 0543 0444
	0389 0266 0706 0155		0637
Lemon	0715	Novis	0355
Lenco	0358 0243 0396 0444	NTC	0525 0821
	0736 0715 0553 0521	Oceanic	0609 0356
	0392 0630	Octagon	0396 0444 0243 0389
Lennox	0615		0636
Lenson	0524	Okano	0266 0525 0354
Lexus	0223	OnDigital	0156 0157 0264
Leyco	0538	Optex	0417 0615 0387 0854
LG	0358		0616
Lifesat	0628 0392	Optima	0525
Lion	0356	Orbit	0374 0396 0356
Loewe	0266	Orbitech	0524 0612 0564 0444
Lorenzen	0243 0715 0817 0630		0571 0285
	0765 0155	Origo	0521
Lorraine	0358	OSAT	0368
Lupus	0392	Oxford	0538
Luxor	0131 0368 0596 0896	Pace	0520 0743 0478 0870
	0524		0090 0206 0359 0814
M&B1	0628		0818 0264
Macab	0609	Pacific	0609
Manata	0733 0736	Packsat	0733
Manhattan	0478 0615 0543 0387	Palcom	0385
	0521 0733 0857	Palladium	0266 0594 0444 0524
Marantz	0223	Palsat	0524
Mascom	0465	Panasonic	0478 0870
Maspro	0115 0359 0518 0667	Panda	0478 0090 0131 0630
	0773 0736 0196 0594		0196 0857
	0715	Patriot	0538
Master's	0417	Philips	0223 0315 0243 0206
Matsui	0594 0733 0385 0196		0478 0690 0773 0733
Max	0630		0636 0828 0612 0240
MB	0628		0876 0594 0196 0156
Mediabox	0315 0876		0157 0841 0921
Mediamarkt	0266	Phoenix	0389 0206
MediaSat	0553 0524 0315 0876	Phonotrend	0311 0615 0387 0525
Medion	0736 0392		0886
Medison	0736	Pioneer	0876 0315
Mega	0223	PK Sat	0356
Melectronic	0841	Planet	0894
Metronic	0444 0266 0636 0311	Polytron	0417 0419
	0543 0107 0841 0908	Predki	0355 0444
Metz	0196	Preisner	0266 0536 0612 0155
Micro	0630 0636		0419 0706 0817
electronic	0736	Premier	0615 0525
Micro		Premiere	0315 0876 0896
Technology	0356 0736 0553	Pro Visat	0757
Microtec	0736	Prosat	0311 0385 0651
Minerva	0594	Prosonic	0765
Mitsubishi	0478	Protek	0609 0356
Mitsumi	0536	Proton	0356
Morgan's	0266 0223 0536 0706	Provision	0543
	0817 0736 0387 0612	Pye	0594
	0852 0155	Pyxis	0854 0857
Multistar	0354	Quadral	0385 0311 0392 0612
Muratto	0358 0344		0651 0733
Mysat	0736	Quelle	0275 0630 0765
Navex	0355	Radiola	0223
NEC	0201	Radix	0419 0667 0905
Network	0206	Rainbow	0636 0667
Neuhaus	0553 0524 0243 0612	Red Star	0392
	0715 0615 0736 0857	Redpoint	0553
	0630	RFT	0564 0311 0243 0223

Roadstar	0736	Teledirekt	0206
Rover	0651 0736	Telefunken	0444 0733
Saba	0206 0543 0359 0637	Telesa	0266 0465 0636 0419
	0713 0757 0733 0715		0821 0773 0715 0524
	0908 0630		0285 0630 0857
Sabre	0478	Telemaster	0543
Sagem	0843	Telesat	0628 0630
Sakura	0389	Telestar	0524
Salora	0131	Teletech	0903
Samsung	0310 0444 0876	Teledes	0478 0524
SAT	0374 0344 0484 0524	Telewire	0615 0387
	0385 0698	Tensai	0396 0355
Sat Partner	0355 0525 0444 0358	Thomson	0478 0637 0736 0315
	0543 0636 0757		0876 0630 0843 0733
Sat Team	0736	Thorens	0609
Satcom	0369 0628 0630	Thorn	0478
Satec	0206 0736	Tioko	0417 0266
Satelco	0392	Tokai	0223
Satford	0369	Tonna	0369 0478 0615 0387
Satline	0651		0524 0736 0857
Satmaster	0369	Toshiba	0478
Schäcke	0636	TPS	0843
Schneider	0690 0828 0921 0733	Trendline	0536
Schwaiger	0417 0206 0628 0527	Trendplain	0536
	0612 0630 0908 0715	Triad	0374 0358 0344 0356
Sedea		Triasat	0437 0524
Electronique	0444	Triax	0437 0524 0223 0419
Seemann	0419 0266 0553 0538		0736 0876
SEG	0444 0392 0355 0628	Tristar	0396
	0765	Uniden	0854 0698
Seleco	0615 0387 0894	Unisat	0389 0266 0223
Servi Sat	0615	Unitor	0240 0355
Siemens	0196 0706	Universum	0196 0594 0420 0630
Silva	0358		0698 0484 0765
Skantin	0736	Variosat	0196
Skardin	0553	Vector	0356
Skinsat	0524	Ventana	0223
SKR	0736	Vestel	0765
Sky	0870	Videocrypt	0734
Skymaster	0311 0628 0651 0736	Viper	0389
	0903	Visiosat	0374 0713 0736
Skymax	0223 0356	Viva	0243
SkySat	0628	Vortec	0310 0444
Skyvision	0387	VTech	0374 0344 0713 0841
SL	0715 0155 0765 0266	Wela	0612 0736 0817 0155
Smart	0155	Wetekom	0852 0628 0524
Sony	0870 0478 0876	Wewa	0356 0478
SR	0536	Wibo	0266
Starland	0736	Winersat	0355
Starring	0355	Wintergarten	0311
Strong	0444 0636 0392 0616	Wisi	0196 0344 0713 0419
	0543 0396 0876		0612 0478 0374 0524
STVI	0667		0857 0630
Sumida	0266	Woorisat	0543
Sunny		World	0355
Sound	0392	Worldsat	0733
Sunsat	0736 0553	XCOM	0855
Sunstar	0536 0266 0392 0817	Xrypton	0392
	0155	XSat	0855 0736
Tagra	0387	Zaunkonig	0715
Tantec	0359 0478	Zehnder	0344 0354 0543 0527
Tatung	0478		0392 0841 0765 0417
Techniland	0369 0615 0387		0240
TechniSat	0285 0524 0571 0564	Zeta	
	0028 0223	Technology	0223
Technowelt	0630	Zodiac	0636
Teco	0396 0266 0536	Zwergnase	0817 0266
Telasat	0628 0630		
Teleciel	0636 0757		
Telecom	0736		

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## Cable Converters

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Alcatel	0919 0920
Austar	0299
BT	0128 0739
Cabletime	0294 0400 0471 0688
Canal Plus	0466
Comcrypt	0466
Filmnet	0466
France	
Telecom	0474 0840 0919 0920
General	
Instruments	0299
Jerrold	0026 0299
Kabelvision	0026
Macab	0840
MNet	0466
Mr Zapp	0840
NTL	
Cabletell	0299
Optus	0299
Philips	0474 0840
PVP Stereo	
Visual	0026
Sagem	0840
Scientific	
Atlanta	0031 0300
Tele+1	0466
Telepiu	0466
Tudi	0309
United	
Cable	0026
Videotron	0273
Videoway	0273
Visiopass	0474 0840
Westminster	0128 0739

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## CD / Mini Disc

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Aiwa	0147
Akai	0385
Alba	0638
Alto	0648
Arcam	0180
Ariston	0648
Audio	
Research	0180
Audiolab	0180
Audiomeca	0180
Audioton	0180
Bang &	
Olufsen	0235
BAT	0180
Bush	0638
Cairn	0180
California	
Audio Lab	0052
Cambridge	
Audio	0648 0180
Carver	0202
Craig	0638
Cyrus	0180
Denon	0026 0896
DKK	0023
Dynamic	
Bass	0202
Eclipse	0648

Fidelity	0648
Fisher	0202
Gemini	0648
Genexxa	0023 0060 0202 0055
Goldmund	0180
Goodmans	0648 0385 0638
Grundig	0180
GTX	0385
Harman/	
Kardon	0196 0180
HCM	0648
Hiro	0648
JVC	0095
Kenwood	0060 0213 0051 0704
Krell	0180
Lansay	0648
Linn	0180
Marantz	0180
Matsui	0180
MCS	0052
Meletronic	0385
Memorex	0055
Meridian	0180
Micromega	0180
Mission	0180
MTC	0648
NAD	0023
Naim	0180
NSM	0180
Panasonic	0052 0326 0390
Philips	0180 0297 0649
Pink	
Triangle	0648
Pioneer	0055 0267
Proton	0180
QED	0180
Quad	0180
Radiotone	0638 0648
RCA	0202
Realistic	0202
Revox	0180
Rotel	0180
SAE	0180
Sansui	0180 0648
Sanyo	0202
Schneider	0638
Sharp	0060
Siemens	0180
Sony	0023 0420 0513
SuperTech	0648
Synergy	0648
Tandy	0055
Teac	0648
Technics	0052 0230 0326
Thorens	0180
Thule	0180
Universum	0180 0385
Victor	0095
Watson	0638
Wharfedale	0385
Yamaha	0059 0210
Zenith	0638

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## Miscellaneous Audio

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Aiwa	0033 0182 0427
Harman/	
Kardon	0500

JBL	0500
JVC	0096
Sanyo	0894
Sony	0182 0033

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## Amplifiers

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Aiwa	0429
BAT	0292
Bush	0292 0444
Denon	0183 0295
Goldmund	0292
Goodmans	0444
Grundig	0292 0870
Linn	0292
Marantz	0292
Mark	1026 0292
Meridian	0292
Micromega	0292
Myryad	0292
Naim	0292
Panasonic	0331
Philips	0292
Pioneer	0036 0292
Quad	0292
Roadstar	0870
Teac	0444
Technics	0331
Telefunken	0870
Thorens	0292
Universum	0292
Yamaha	0166 0377

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## Amp/Tuners

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Aiwa	0144 0428 0181
Akai	0369 0138 0463 0632
Anam	0304 0632
Arcam	0665 0212
Bang & Olufsen	0822
Brandt	0847
Cambridge Audio	0212
Carver	0065 0383
Clatronic	0767
Denon	0027 0296
Elta	0767
Fisher	0065 0383
Garrard	0304 0309 0463 0767
Genexxa	0209 0463
Goldmund	0212
GoldStar	0304
Goodmans	0632 0767 0463
Grundig	0212 0309 0304 0242 0767
Harman/ Kardon	0133 0212 0231
Harwood	0767
Inkel	0050 0514
Intersound	0767
JBL	0133
JVC	0097 0487
Kenwood	0050 0336 0337 0209 0262
Koss	0767

LG	0304
Linn	0212
LXI	0767
Marantz	0212 0435 0242
Matsui	0767
MCS	0062 0369
Memorex	0037
Micromega	0212
Mitsubishi	0463
NAD	0343
Nikkei	0767
NTDE	0767
Okano	0463
Onkyo	0158
Orient Power	0767
Panasonic	0332 0541 0786 0062
Philips	0212 0435 0665
Pioneer	0037 0103 0312 0209
Quasar	0062
RadioShack	0767
RCA	0369
Revox	0212 0209
Roadstar	0369
Saba	0847
Saisho	0369
Samsung	0309
Sansui	0212 0632 0369
Sanyo	0383 0242 0065
Schneider	0133 0767
Sharp	0209
Sherwood	0514
Siemens	0632
Sonic	0304
Sony	0181 0438
Soundwave	0632
TaeKwang	0463
Teac	0632 0133
Technics	0332 0541 0786 0231 0062
Techwood	0304
Telefunken	0847
Thomson	0847
Thorens	0212
Thorn	0767
Uher	0369
Universum	0304 0632 0767 0309 0463 0212
Victor	0097
Wharfedale	0463 0632
Yamaha	0199 0209
Zenith	0304 0767

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## Cassette Players

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Aiwa	0220
Akai	0211
Arcam	0099
Denon	0099
Grundig	0052
Harman/ Kardon	0205 0052
Inkel	0093
JVC	0333 0296
Kenwood	0093
Magnavox	0052
Marantz	0052
Memorex	0122

# Guarantee

UNIVERSAL ELECTRONICS INC. warrants to the original purchaser that this product will be free from defects in materials and workmanship under normal use for a period of one (1) year from the date of the original purchase. Product will be replaced free of charge if it has been proven to be defective within the one (1) year period when said product is returned at customer expense within the warranty period. THIS WARRANTY DOES NOT COVER ANY EXPENSES INCURRED IN THE REMOVAL AND REINSTALLATION OF THIS PRODUCT.

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To obtain warranty service during the warranty period, please carefully pack the product and send it prepaid and adequately insured to the address below, together with your purchase receipt or other proof of the date of original purchase.

#### **In Australia:**

Crest Electronics  
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4034 Queensland

#### **IMPORTANT:**

**IF THE UNIT IS RETURNED WITHIN THE WARRANTY PERIOD, YOU MUST INCLUDE YOUR PURCHASE RECEIPT** so that we may establish your eligibility for service and can replace your unit without cost. It would be helpful if you included a note detailing the problem. IF THE UNIT IS RETURNED FOR SERVICE OUTSIDE THE WARRANTY PERIOD, please include a cheque to cover the cost of replacement, handling and return postage. (Prices may differ per model.)

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