

# AvediaPlayer Receivers

## Remote Control Handset



## Administrator's Guide



## Notices

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## Products Described By This Guide

- Exterity Remote Handset V5

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[support@exterity.com](mailto:support@exterity.com)

## Safety Notices

Before installing and operating these products, please read the safety information in this manual

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# Safety and Environmental Instructions

## Documentation Conventions

The following conventions are used in this guide:

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**Note:** A **Note** calls attention or adds information that is important for the proper operation of the product.

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**CAUTION:** A **CAUTION** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a **CAUTION** notice until the indicated conditions are fully understood and met.

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**WARNING:** A **WARNING** notice denotes a hazard. It calls attention to an operating procedure or practice that if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a **WARNING** notice until the indicated conditions are fully understood and met.

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## Safety

There are no instructions specifically for service personnel in this document. There are no user serviceable parts inside this product. To prevent electric shock or fire hazard, do not remove covers, other than those required for battery replacement. Refer service to qualified service personnel.

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**WARNING:** "Ultra" or "plus" batteries, especially those containing lithium (FR03), **must not** be installed in the IR Remote Control.

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## Battery Disposal

The remote handset is supplied with AAA carbon zinc (R03) or Alkaline (LR03) batteries. When replaced, refer to your local country legislation and dispose of the exhausted batteries responsibly.

# 1 Introduction

This manual explains how to program the Exterity Remote Control handset V5. The handset is used in conjunction with Exterity AvediaPlayer IPTV receivers.

In its default mode, all the buttons of the handset control the operation of AvediaPlayer receivers. It can also be programmed to control a TV and in this state, the following 5 buttons are reprogrammed:

- Standby
- Volume +
- Volume –
- Mute
- AV

Programming the Remote Control for specific TVs is described in [Programming the Remote Control Handset](#) on page 8.

## Scope

This edition of the manual refers only to the Exterity remote control handset V5.



## Audience

This manual is intended for use by systems integrators or systems administrators who are installing and setting up Exterity products. The manual assumes that readers are familiar with installing and configuring network-based and audio-visual products.

## Terms and definitions

The following terms and definitions are used in this document:

**Table 1 Terms and Definitions**

Term	Definition
AV	Audio Visual
EPG	Electronic Program Guide
IR	Infra Red

## Support and contact information

Technical Support for Exterity products is provided by authorised Systems Integrators and Resellers. Please contact your Systems Integrator or Reseller with any Support issues.

## 2 The Remote Control Handset

The AvediaPlayer r92xx series receivers can be controlled using the Exterity Infra Red (IR) remote control handset.

This chapter contains the following sections:

- [Inserting Batteries](#)
- [Remote Control Key Functions](#)

### Inserting Batteries

The batteries for the IR Remote Control are shipped separately. If the batteries in the remote control become exhausted, they should be replaced with two AAA sized replacements. Ideally use carbon zinc (R03) replacement batteries. Alkaline (LR03) batteries may be used but offer no advantage. **Do not** mix batteries of different types or age.

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**WARNING:** "Ultra" or "plus" batteries, especially those containing lithium (FR03), **must not** be installed in the IR Remote Control.

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#### To insert new AAA disposable batteries:

1. On the back of the IR Remote Control, push down on the battery compartment lid and slide it towards the nearest end of the handset to detach it from the controller.
2. Insert two new AAA (R03 or LR03) batteries. Orient the batteries so that the positive (+) and negative (-) ends are positioned as shown by the diagram on the bottom of the battery compartment.
3. Relocate the battery compartment lid and slide to close.

### Remote Control Key Functions

In Figure 1, [Blue](#) colour coding is used to identify keys/functions that are used by the AvediaPlayer receiver and can also be used by a TV.

The response of the AvediaPlayer receiver to remote control key presses is determined by the installed firmware version of the receiver. Some button functions can also be customised. Refer to the *AvediaPlayer r92xx Series receivers Administrator's Guide* for the installed firmware for more information.

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**Note:** When the remote control has been programmed for TV operation, you can apply a key function marked in [blue](#) to the AvediaPlayer receiver by first pressing and holding the **OK** key.

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Figure 1 Remote Control Handset v5 Functions

### 3 Programming the Remote Control Handset

Five of the buttons on an Exterity remote control handset V5 can be reconfigured to directly control a TV. To configure the remote to control a specific TV a number of different methods are possible. Each method is triggered by a special key-press. An overview of the programming features and the corresponding key press is shown in Table 2, with more details in subsequent sections.

**Table 2 Remote Handset v5 Programming Modes**

<b>Programming Mode</b>	<b>Description</b>	<b>Initiating key-combination for TV</b>
Brand Search	This method uses a TV manufacturer Brand name ID to quickly find the correct IR codes for a TV using the built in IR Database.  Inactivity timeout: 300s.	<b>&lt;&lt;1 + 3&gt;&gt;, four digit code, Standby or Mute</b>
Full Auto Search	Similar to the Brand search the remote will search for IR-codes through the full IR Database.  Inactivity timeout: 300s.	<b>&lt;&lt;1 + 3&gt;&gt; , Standby or Mute</b>
Manual code-set entry	Allows direct entry of a Code-set ID to program the remote for a specific TV model.  This is meant mainly for support or mass programming multiple remotes once the correct code has been found and tested.  Inactivity timeout: 300s.	<b>&lt;&lt;1 + 6&gt;&gt; , four digit code</b>
Key Fix	Allows you to fix keys that still don't work after a Brand search, Auto search or manual code-set entry. This can also be used to disable a key and prevent it from controlling the TV, for example; the AV button.  Inactivity timeout: 300s.	<b>&lt;&lt;1 + 9&gt;&gt;</b>
Manufacturing Reset	Reset the remote to factory settings.  Inactivity timeout: 30s.	<b>&lt;&lt;1 + 6&gt;&gt;, &lt;9&gt;, &lt;8&gt;, &lt;1&gt;</b>
Code-set ID Blink out	Reads out the installed code-set ID from the IRDB.  Inactivity timeout: 30s.	<b>&lt;&lt;1 + 6&gt;&gt;, &lt;RED&gt;, &lt;1&gt; [...blink...], &lt;2&gt; [...blink...], &lt;3&gt; [...blink...], &lt;4&gt; [...blink...]</b>
Brand ID Blink out	Allows the user to read out the installed brand ID from the IRDB.  Inactivity timeout: 30s.	<b>&lt;&lt;1 + 6&gt;&gt;, &lt;GREEN&gt;, &lt;1&gt; [...blink...], &lt;2&gt; [...blink...], &lt;3&gt; [...blink...], &lt;4&gt; [...blink...]</b>

**Notation:** <> normal key press, << >> press and hold this key or these keys for 3 seconds. 1+3 indicates pressing both keys at the same time, whereas 1, 3 indicates pressing the keys sequentially.



## General

When you start a programming feature, the Standby LED turns on to indicate this.

- When a valid key press sequence is entered in programming mode, the Standby LED blinks in confirmation.
- When an invalid key press sequence is entered, the Standby LED indicates an error blink.
- If the remote stays in programming mode the Standby LED turns on again. If the remote returns to use-mode, the Standby LED turns off.
- When the remote handset returns to use mode from programming mode, the Standby LED is turned off, optionally preceded by a confirmation or error blinking sequence.
- After each key press in programming mode you have some time to press the next key. This is the inactivity timeout period. For some programming features this timeout can differ. If no key is pressed within a timeout period the Standby LED displays an error blink and turns off. The remote handset returns to use mode.
- When the remote handset is put in programming mode, it checks for sufficient battery charge. If the battery is too low, it performs an error blink and returns to use mode.

## Blinking Patterns

Blinking patterns signal a confirmation or error. The sequences are defined below:

- **Confirmation blink:** 200ms Off, 200ms On, 200ms Off, 200ms On, 200ms Off
- **Error blink:** 50ms Off, 50ms On, 50ms Off, 50ms On, 50ms Off, 50ms On, 50ms Off, 50ms On, 50ms Off, 50ms On, 50ms Off.
- **ID blink out:** 400ms On, 300ms Off

## Programming Features

### Brand-search & Auto-search Programming (1+3)

There are two different scenarios for this feature. The main function is to search through the universal code-sets of one brand. Another function is to search through all universal code-sets (auto search).

Brand search and Auto search can be done by pressing either the **Standby** or **Mute** key. If Power is used, the remote sends Standby or Power-Off commands to the device (TV). If the **Mute** key is used, the remote sends Mute commands to the TV.

**Table 3 Search Key Sequences**

Feature	Key Sequence
TV Brand search	<<1 + 3>>, 1 <sup>st</sup> digit, 2 <sup>nd</sup> digit, 3 <sup>rd</sup> digit, 4 <sup>th</sup> digit, Standby or Mute
TV Auto search	<<1 + 3>>, Standby or Mute

If the 4 digits entered for the TV Brand search are all zeroes, or there are no digits entered before **Standby** or **Mute**, Auto search is enabled.

First the brand number or the universal code number is entered, and then the auto search sequence starts. Upon selection, the new universal code number is programmed to non-volatile memory as if it had been selected manually.

#### To select a brand search:

1. Ensure the TV is turned on.
2. Press and hold **1** and **3** together for a minimum of 3 seconds and the Standby LED turns on.
3. Release the key(s).
4. Enter the 4-digit code for the brand.

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**Note:** When no brand digits are entered the remote starts a full auto-search.

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When a digit is pressed, the LED gives a short inverse blink, after the fourth digit, the remote checks if the 4-digit code was valid.

- If correct, the Standby LED displays a confirmation blink and remains on (the search includes all code- sets that are linked to the selected brand).
  - If the code was not valid, an error-blink is displayed, and the remote returns to use-mode. Apart from digits, you can press other keys. Most key-presses are simply ignored (no inverse blink). If you press optional keys (**Up**, **Down**, **Left**, **Right** or **OK**) the corresponding AvediaPlayer receiver code is sent and the Standby LED turns on when receiver code is transmitted.
5. Press and hold the **Standby** or **Mute** key. After 2 seconds a Power Toggle or Mute IR command is transmitted for the next universal code-set in the code-set list for the selected brand. The Standby LED turns off during transmission of the IR-code.

No new IR commands are sent during the next 1.5 – 2 seconds (to prevent selecting subsequent code-sets before the device turns off). If the device does not turn off or mute keep pressing the key. The remote then tries the next universal code-set in the list for the selected brand.

With a Brand Search, the sequence stops completely when all code-sets of the selected Brand are tested twice. For an Auto-search, all code-sets of the whole database are tested once. When this stage is reached the remote performs an error blink and as no further codes are sent.

6. When the TV turns off or mutes, release the **Standby** or **Mute** key. Releasing the **Standby/Mute** key confirms the current code-set. The code number is programmed to non-volatile memory.
7. Now you can try pressing some keys. (try mode)
8. In try mode the TV functions that are available in use mode can be tested. For TV these are the **Vol+/Vol-**, **mute**, **AV**, and **TV Standby** keys. If the **Mute** key was used to select the code-set, you can only try the **Vol+/ Vol-** and **Mute** keys.
9. If the **Standby** key was used to select the code-set you can try all keys as specified above. If other keys are pressed, no code is transmitted.
10. When you have confirmed the correct code-set has been selected, exit programming mode and return to use mode by pressing **Home + Stop**.

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**Note:** If there are no key presses for 5 minutes when the remote is in programming mode, an error blink is displayed and it reverts to use-mode.

At any time in programming mode before step 5, you can abort programming by pressing **HOME + STOP**. A confirmation blink is displayed, and the remote handset returns to use-mode, cancelling any changes.

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### Manual Code-set Entry Programming (1+6)

This procedure shows you how to manually enter a code from the [TV Brand Code-set Manual Load List](#) on page 24.

#### To manually enter a TV code:

1. Press and hold **1** and **6** together for a minimum of 3 seconds. During the initial 3 seconds, the Standby LED remains off. After a further 3 seconds the Standby LED blinks twice and remains on.
2. Enter a 4 digit code, from the [TV Brand Code-set Manual Load List](#) on page 24.

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**Note:** Only digit keys are allowed. When a digit is pressed, the LED turns off for the duration of the key-press with a 150ms minimum. Any other key press will result in an invalid sequence.

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**Note:** If the first digit is a 9, the remote handset expects the [Manufacturing Reset](#) codes (page 13).

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3. If the entered sequence of digits is valid, the Standby LED displays a confirmation blink and the handset returns to Use Mode. If the entered sequence of digits is invalid, an error blink is displayed, and the handset returns to Use Mode.

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**Note:** A successful Manual code-set entry programs the new code into non-volatile memory. All Universal keys (shown in blue in Figure 1) are programmed.

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## KeyFix (1+9)

After configuring a code-set using Brand-search, Auto-search, or manual code-set entry, it is possible that keys don't send the right commands for the TV. KeyFix allows you to quickly and simply resolve these.

### To resolve erroneous keys:

1. Press and hold **1** and **9** together for a minimum of 3 seconds and the Standby LED turns on.
2. Now you can press any of the keys that control the TV. Normal presses require less than 2 seconds. IR-codes are sent when the key is released. On release, IR codes are sent for at least 3 frames or 0.25s.
3. If a key doesn't work, keep that key pressed for longer than 2 seconds. This initiates a KeyFix search for the pressed key.

While you keep the key pressed, the remote handset looks for alternative IR-codes for that key and iterates through them. With an interval of 2 seconds, the remote handset sends an alternative code to the TV and turns off the Standby LE. If no Brand-id is known, the interval is 1.5 seconds.

The KeyFix search stops when all options have been tried. The Standby LED displays an error blink and the handset returns to user mode.

4. When the TV reacts correctly, release the key. If the KeyFix search was not complete, the remote performs a confirmation blink, and stores the new IR-code for that key. If the Keyfix search was already exhausted, there is no confirmation blink and no changes are saved.
5. You can now return to step 2. When completed, press **HOME + STOP** to return the remote handset to use-mode.

## Decimal TV Code-set ID Blink Out (1 + 6, RED, 1, 2, 3, 4)

You can use the programming function to read back the programmed code-set.

### To read back the programmed TV code-set:

1. Press and hold **1** and **6** together for a minimum of 3 seconds. During the initial 3 seconds, the Standby LED remains off. After a further 3 seconds the Standby LED blinks twice and remains on.
2. Press **RED**. The Standby LED displays a confirmation blink and remains off.
3. Press **1** - the number of blinks of the LED represents the 1st number value of the code-set.
4. Press **2** - the number of blinks of the LED represents the 2nd number value of the code-set.
5. Press **3** - the number of blinks of the LED represents the 3rd number value of the code-set.
6. Press **4** - the number of blinks of the LED represents the 4th number value of the code-set.
7. When the blinks of the 4th number have been completed the remote handset returns to use-mode.

---

**Note:** No blinks indicate a zero. There is no confirmation blink to complete this process as it may be confused with a code-set number blink. A value of 9999 indicates no programmed code-set.

Any deviation from the **1, 2, 3, 4** sequence is seen as an invalid key press. When this happens, the Standby LED displays an error blink, and returns to use-mode.

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### **Decimal Brand ID Blink Out (1 + 6, Green, 1, 2, 3, 4)**

You can use the programming function to read back the programmed TV brand.

1. Press and hold **1** and **6** together for a minimum of 3 seconds. During the initial 3 seconds, the Standby LED remains off. After a further 3 seconds the Standby LED blinks twice and remains on.
2. Press **GREEN**. The Standby LED displays a confirmation blink and remains off.
3. Press **1** - the number of blinks of the LED represents the 1st number value of the TV brand.
4. Press **2** - the number of blinks of the LED represents the 2nd number value of the TV brand.
5. Press **3** - the number of blinks of the LED represents the 3rd number value of the TV brand.
6. Press **4** - the number of blinks of the LED represents the 4th number value of the TV brand.
7. When the blinks of the 4th number have been completed the remote handset returns to use-mode.

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**Note:** There is no confirmation blink to complete this process as it may be confused with a code-set number blink.

No blinks indicate a zero. A value of 9999 indicates no programmed TV brand.

Any deviation from the **1, 2, 3, 4** sequence is seen as an invalid key press. When this happens, the Standby LED displays an error blink, and returns to use-mode.

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### **Manufacturing Reset (1 + 6, 9, 8, 1)**

You can delete any code-set you have programmed into the remote handset and return it to the factory default settings (AvediaPlayer receiver operation only).

#### **To reset the remote handset to factory default settings:**

1. Press and hold **1** and **6** together for a minimum of 3 seconds. During the initial 3 seconds, the Standby LED remains off. After a further 3 seconds the Standby LED blinks twice and remains on.
2. Enter **9, 8, 1**.
3. If the entered sequence of digits is valid, the Standby LED displays a confirmation blink, all programmed settings are deleted. The handset returns to the factory default settings and returns to Use Mode.

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**Note:** If no keys are pressed within 10 seconds of pressing **9**, the Standby LED displays an error-blink, and the remote handset returns to use-mode.

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## 4 Brand Code Reference List

TV Brand (A-G)	Brand Code	TV Brand (H-P)	Brand Code	TV Brand (Q-Z)	Brand Code
A.R. Systems	0012	Haaz	1172	Qingdao	2308
ABS	0016	Haier	1175	Quadral	2314
Accent	0019	Halifax	1179	Quasar	2320
Acer	0028	Hallmark	1180	Quelle	2322
Acoustic Solutions	0032	Hampton	1183	R-Line	2327
Action	0033	Hanimex	1187	Radialva	2329
Acura	0036	Hankook	1188	Radiola	2330
Adcom	0041	Hanns.G	3478	Radiomarelli	2331
Addison	0043	Hannspree	1189	Radionette	2332
ADL	0045	Hanseatic	1190	RadioShack	2333
Admiral	0046	Hantarex	1192	Radiotone	2334
Advent	0054	Hantor	1193	Rank Arena	2346
Adventura	0055	Harley Davidson	1197	RCA	2351
Adyson	0058	Harman/Kardon	1198	Realistic	2354
AEG	0059	Harsper	1200	Recco	2358
Afron	3470	Harvard	1202	Recor	2359
Agashi	0063	Harwa	1203	Rectiligne	2362
AGB	0064	Harwood	1204	Rediffusion	2364
Aiko	0069	Hauppauge	1206	Redstar	2366
Aim	0070	Havermy	1208	Reflex	2368
Airis	0071	HB	1209	Relisys	2374
Aiwa	0072	HCM	1210	Remotec	2377
Akai	0074	Helios	1219	Reoc	2379
Akashi	0075	Hello Kitty	1221	RevolutionHD	3503
Akiba	0078	Hema	1222	Revox	2383
Akira	0079	Hemmermann	1223	Rex	2385
Akito	0082	Hewlett Packard	1229	RFT	2386
Akura	0083	Hifivox	1233	Ricavision	2388
Alaron	0085	Highline	1236	Ricoh	2390
Alba	0086	Hikona	1237	Rinex	2392
Albatron	0087	Hinari	1243	Roadstar	2398
Alfide	0096	Hisawa	1247	Rolson	2410
Alienware	0099	Hisense	1249	Rover	2415
Alkos	3523	Hitachi	1251	Rowa	2416
All-Tel	0101	Hitachi Fujian	1252	Royal Lux	2420
Allorgan	0105	Hitec	1253	Runco	2423
Allstar	0108	Hitsu	1257	Saba	2429
America Action	0123	Hoehner	1262	Sagem	2434
Amitech	0130	Home Electronics	1265	Saisho	2437

<b>TV Brand (A-G)</b>	<b>Brand Code</b>	<b>TV Brand (H-P)</b>	<b>Brand Code</b>	<b>TV Brand (Q-Z)</b>	<b>Brand Code</b>
Amoi	0132	Hongmei	1272	Saivod	2439
Amplivision	0138	Hornyphon	1277	Sakai	2440
Ampro	0139	Hoshai	1278	Sakura	2441
Amstrad	0140	Howard Computers	1281	Salora	2443
Anam	0146	HP	1283	Sambers	2445
Anam National	0147	Huafa	1287	Sampo	2446
Andersson	0148	Huanyu	1292	Samsung	2448
Anglo	0151	Huari	1294	Sandra	2454
Anhua	0153	Hugoson	1297	Sansei	2457
Anitech	0154	Humax	1298	Sansui	2458
Ansonic	0156	Huodateji	1302	Santon	2459
AOC	0165	Hush	1304	Sanyo	2462
Aomni	3555	Hygashi	1308	Sanyuan	2464
Apex Digital	0170	Hyper	1309	SBR	2492
Apple	0172	Hypersonic	1310	ScanSonic	2497
Arc En Ciel	0178	Hypson	1312	Sceptre	2498
Arcam	0179	Hyundai	1315	Schaub Lorenz	2500
Ardem	0184	Iberia	1320	Schneider	2501
Arena	3375	iBUYPOWER	1322	Schoentech	3504
Aristona	0192	ICE	1324	Scimitsu	2505
ART	0199	ICeS	1325	Scotch	2506
Arthur Martin	0200	ICT	1328	Scotland	2507
ASA	0202	IIsonic	1334	Scott	2508
Asberg	0205	Iiyama	1335	Sears	2514
Asora	0213	I-Inc	3462	Seaway	2515
Astar	0218	iLo	1341	Seelver	2520
Astra	0221	Imperial	1346	SEG	2522
Astro	0224	Imperial Crown	1347	SEI	2524
Asuka	0227	Indiana	1350	Sei-Sinudyne	2525
ATD	0229	Infinity	1352	Seitech	3433
Atec	0230	InFocus	1353	Seleco	2528
Atlantic	0233	Ingelen	1354	Semivox	2529
Atori	0237	Ingersol	1355	Semp	2530
Auchan	0240	Initial	1356	Sencora	2531
Audiosonic	0264	Inno Hit	1358	Sentra	2534
Audioton	0266	Innova	1359	Serie Dorada	2538
Audiovox	0268	Innovation	1360	Serino	2539
Audioworld	0269	Innowert	1362	Shanghai	2547
Aumark	0271	Inotech	1364	Shaofeng	2549
Autovox	0280	Insignia	1368	Sharp	2550
Aventura	0287	Inteq	1373	Shen Ying	2552
Awa	0296	Interactive	3534	Shencai	2553

TV Brand (A-G)	Brand Code	TV Brand (H-P)	Brand Code	TV Brand (Q-Z)	Brand Code
Axxent	0302	Interbuy	1376	Shenyang	2555
Axxon	0303	Interfunk	1377	Sherwood	2557
Baier	0308	Internal	1379	Shintoshi	2564
Baile	0310	Intervision	1386	Shivaki	2567
Baird	0311	Irradio	1396	Shogun	2568
Bang & Olufsen	0314	IRT	1397	Shorai	2569
Barco	0319	Isukai	1402	Show	2570
Basic Line	0325	ITC	1404	Siam	2572
Bastide	0327	ITS	1405	Siarem	2573
Bauer	0329	ITT	1406	Siemens	2574
Baur	0331	ITT Nokia	1407	Siera	2576
Baysonic	0333	ITV	1408	Siesta	2577
Bazin	0335	Janeil	1414	Silva	2591
BBK	0337	JBL	1420	Silva Schneider	2592
Beaumarck	0340	JCB	1421	Silvano	2593
Beijing	0345	JDV	1423	Silver	2594
Beko	0346	Jean	1424	SilverCrest	2595
Belcor	0348	JEC	1426	Simpson	2598
Bell & Howell	0350	Jensen	1429	Simz	3505
Belson	0355	JGC	1434	Singer	2599
Belstar	0357	Jiahua	1435	Sinotec	2600
BenQ	0359	Jinfeng	1438	Sinudyne	2601
Beon	0361	Jinxing	1442	SKY	2610
Berthen	0363	JMB	1445	Sky Brazil	2611
Best	0364	JNC	1446	Skysonic	2627
Bestar	0368	Jocel	1448	Skyworth	2631
Bestar-Daewoo	0369	Jubilee	1460	Sliding	2635
Binatone	0378	JVC	1464	SLX	2638
BGH	3507	Kaisui	1471	Smaragd	2641
Black Diamond	0384	Kanghua	1477	Soemtron	2647
Blackway	0388	Kangli	1478	Sogera	2649
Blaupunkt	0390	Kapsch	1483	Sogo	2650
Blue Media	3378	Karcher	1484	Solavox	2654
Blue Sky	0395	Kathrein	1486	Sole	2655
Boca	0399	Kawa	1487	Sonawa	2663
Boman	0402	KB Aristocrat	1492	Soniko	2669
Boots	0405	KDS	1494	Sonitron	2671
Bosch	0406	KEC	1496	Sonix	2672
BPL	0413	Ken Brown	1499	Sonneclair	2673
Bradford	0414	Kendo	1500	Sonoko	2675
Brandt	0416	Kennedy	1504	Sonolor	2676
Brandt Electronique	0417	Kennex	1505	Sontec	2677



<b>TV Brand (A-G)</b>	<b>Brand Code</b>	<b>TV Brand (H-P)</b>	<b>Brand Code</b>	<b>TV Brand (Q-Z)</b>	<b>Brand Code</b>
Brinkmann	0423	Kenwood	1507	Sony	2679
Brionvega	0424	Keymat	3499	Sound & Vision	2680
Britannia	0425	Khind	1511	Soundesign	2684
Brockwood	0430	KIC	1512	Soundwave	2689
Broksonic	0432	Kiota	1522	Sova	2690
Brother	0433	Kioto	1523	Sowa	2691
Bruns	0435	Kiton	1525	Soyea	2692
BSR	0437	KLH	1529	Soyo	2693
BTC	0439	KLL	1531	Spectra	2697
Bush	0445	Kloss	1532	Spectroniq	2701
Byd:sign	0448	Kneissel	1535	Squareview	2703
C-Tech	0449	Kobra	1537	Ssangyong	2706
Cailing	0463	Kolin	1541	SSS	2708
Caishi	0465	Kolster	1543	Stack 9	2710
Candle	0480	Konichi	1546	Staksonic	2712
Canton	0482	Konig	1547	Standard	2713
Capsonic	0486	Konka	1548	Starion	2725
Carad	0488	Kontakt	1549	Starlite	2728
Carena	0489	Korpel	1552	Stenway	2739
Carnivale	0491	Korting	1554	Stern	2741
Carrefour	0492	Kosmos	1557	Stevison	2742
Carver	0494	Kotron	1560	Strato	2745
Cascade	0496	Koyoda	1561	Strong	2748
Casio	0499	Kreisen	1568	Studio Experience	2750
Cat	0500	KTV	1572	Stylandia	2752
Cathay	0501	Kuba	1575	SunBrite	2759
CCE	0504	Kuba Electronic	1576	Sunkai	2762
Celebrity	0509	Kunlun	1578	Sunny	2764
Celera	0510	Kyoshu	1583	Sunstar	2768
Celestial	0511	Kyoto	1585	Sunstech	2769
cello	0514	L&S Electronic	1588	Sunwood	2772
Centrex	0516	LaSAT	1597	Superla	2782
Centrum	0519	Lavis	1602	Superscan	2786
Centurion	0520	Leader	1604	Supersonic	2787
CGE	0523	Lecson	1606	SuperTech	2789
Changcheng	0526	Legend	1609	Supra	2792
Changfeng	0528	Lemair	1613	Supre-Macy	2794
Changhong	0530	Lenco	1615	Supreme	2795
Chun Yun	0545	Lentec	3405	Susumu	2797
Chung Hsin	0547	Lenoir	1617	Sutron	2798
Cimline	0552	Lexsor	1626	SVA	2800
Cinema	0555	Leyco	1627	Svasa	2801

<b>TV Brand (A-G)</b>	<b>Brand Code</b>	<b>TV Brand (H-P)</b>	<b>Brand Code</b>	<b>TV Brand (Q-Z)</b>	<b>Brand Code</b>
Cineral	0559	LG	1628	Swedx	2803
Cinex	0563	Liesenkotter	1631	Swisstec	2806
Citizen	0567	Lifetec	1633	Sydney	2808
City	0569	Linksys	1640	Sylvania	2809
Clarion	0575	Lloyd's	1648	Symphonic	2810
Clarivox	0576	Local India TV	1653	Synco	2811
Classic	0580	Local Malaysia TV	1656	Syntax	2814
Clatronic	0581	Lodos	1659	Sysline	2815
Clayton	0582	Loewe	1660	Systemax	2817
CME	0589	Logik	1661	Tacico	2823
CMS Hightec	0591	Logix	1663	Tagar Systems	2831
Coby	0597	Luker	1673	Talent	2838
Commercial Solutions	0615	Luma	1674	Tandberg	2842
Concerto	0625	Lumatron	1676	Tandy	2843
Concorde	0626	Lux May	1680	Targa	2847
Condor	0627	Luxman	1682	Tashiko	2850
Conia	0628	Luxor	1683	Tatung	2852
Conrac	0632	LXI	1686	TCL	2856
Conrad	0633	M & S	1687	TCM	2857
Conrowa	0634	M Electronic	1688	Teac	2860
Contec	0635	Madison	1698	Tec	2861
Continental Edison	0637	MAG	1701	Tech Line	2863
Cosmel	0647	Magnadyne	1702	Techica	2865
Craig	0650	Magnafon	1703	Technema	2866
Crosley	0655	Magnasonic	1704	Technica	2868
Crown	0658	Magnavox	1706	Technics	2869
Crown Mustang	0659	Magnin	1708	Technika	2870
CS Electronics	0663	Magnum	1709	TechniSat	2873
CTX	0665	Mandor	1717	Technisson	2874
Curtis	0666	Manesth	1718	Technol Ace	2875
Curtis Mathes	0667	Manhattan	1719	Technosonic	2878
CXC	0670	Manta	1720	Technotrend	2879
CyberPower	0674	Maqma	1722	Techview	2883
Cybertron	0675	Marantz	1724	Techwood	2884
Cytron	0680	Mark	1731	Tecnimagen	2885
Cytronix	0681	Marquant	1734	Teco	2886
D-Vision	0684	Mascom	1738	Tedelex	2889
Daewoo	0692	Master's	1742	Teiron	2891
Dainichi	0694	Mastro	1743	Tek	2892
Dansai	0699	Masuda	1744	Teknika	2895
Dansette	0701	Matsui	1750	Teleavia	2901
Dantax	0702	Matsushita	1751	Telecor	2910

<b>TV Brand (A-G)</b>	<b>Brand Code</b>	<b>TV Brand (H-P)</b>	<b>Brand Code</b>	<b>TV Brand (Q-Z)</b>	<b>Brand Code</b>
Datsura	0703	Maxdorf	1756	Telefunken	2914
Dawa	0707	Maxent	1757	Telefusion	2915
Daytek	0708	Maxim	1759	Telegazi	2917
Dayton	0709	MCE	1766	Telemagic	2920
Daytron	0710	Meck	1775	Telemeister	2924
Dayu	0711	Media Center PC	1777	Telesonic	2930
De Graaf	0716	Mediator	1784	TELE System	3551
DEC	0717	Medion	1787	Telestar	2931
Decca	0718	Megapower	1791	Teletech	2934
Dell	0725	Megas	1792	Teleton	2935
Denko	0730	Megatron	1795	Televideon	2938
Denon	0731	MEI	1796	Television	2939
Denver	0733	Memorex	1800	Temco	2946
Desmet	0738	Memphis	1802	Tempest	2948
Diamant	0746	Mercury	1804	Tennessee	2952
Diamond	0747	Mermaid	1806	Tensai	2954
Diamond Vision	0748	Metronic	1809	Tenson	2955
DiBoss	0749	Metz	1810	Tevion	2962
Dick Smith Electronics	0750	MGA	1811	Texet	2963
Digatron	0751	Micromaxx	1822	Thomas	2971
Digihome	0758	Microsoft	1826	Thomson	2972
Digiline	0759	Microstar	1827	Thorn	2974
DigiLogic	0760	MicroTEK	1829	Thorn-Ferguson	2976
Digital Device	0770	Midland	1831	Tiane	2980
Digital Life	0772	Mikomi	1833	Time	2982
Digitek	0779	Minato	1835	Tiny	2986
Digitex	0780	Mind	1837	TMK	2994
Digitor	0781	Minerva	1838	TML	2995
Digitrex	0782	Minoka	1840	TNCi	2996
Digix	3520	Mintek	1845	Tobishi	2998
Digix Media	0785	Minutz	1847	Tobo	2999
DiK	0787	Mirai	1849	Tokai	3001
DirecTV	0794	Mirror	1851	Tokaido	3002
Dixi	0807	Mitsubishi	1855	Tokyo	3004
DL	0810	Mivar	1857	Tomashi	3006
DMTech	0813	Mogen	1865	Topline	3016
Domeos	0817	Monaco	1868	Toshiba	3021
Doric	0822	Monivision	1872	Tosumi	3023
Dream Vision	0829	Morgan's	1875	Touch	3025
Drean	0832	Motorola	1878	Towada	3028
DSE	0833	mp man	1884	Toyoda	3030
DTS	0837	MTC	1889	Trakton	3036

<b>TV Brand (A-G)</b>	<b>Brand Code</b>	<b>TV Brand (H-P)</b>	<b>Brand Code</b>	<b>TV Brand (Q-Z)</b>	<b>Brand Code</b>
Dual	0838	MTlogic	1892	TRANS-continents	3039
Dual Tec	0839	Mudan	1896	Transonic	3041
Dumont	0840	Multitec	1906	Triad	3049
Durabrand	0842	Multitech	1907	Trident	3054
Dux	0843	Murphy	1911	Trio	3056
DVX	0847	Musikland	1915	Tristar	3057
Dwin	0848	Mx Onda	1919	Triumph	3058
DX Antenna	0849	Myryad	1922	TruTech	3467
Dynatech	0854	NAD	1926	TVS	3081
Dynatron	0855	Naiko	1930	TVTEXT 95	3082
Dynex	3476	Nakimura	1933	Uher	3089
E:max	0856	Naonis	1936	Ultravox	3095
Easy Living	0860	Narita	1939	UMC	3099
Ecco	0864	NAT	1941	Unic Line	3100
ECE	0865	National	1942	United	3106
Edison-Minerva	0871	NEC	1950	Universal	3113
Eiki	0874	Neckermann	1951	Universum	3115
Elbe	0880	NEI	1952	Univox	3116
Elbe-Sharp	3529	Neon	1955	US Logic	3124
Elcit	0883	Neovia	1958	V2max	3129
Electroband	0888	Netsat	1966	V7 Videoseven	3130
Electrograph	0889	NetTV	1967	VANGUARD	3450
Electrohome	0890	Neufunk	1970	Vector Research	3137
Elekta	0895	New Tech	1979	Venturer	3143
Elektra	0896	New World	1980	Vestel	3148
Element	3477	Newave	1981	Vexa	3149
Elfunk	0899	Nicam	1993	Victor	3155
ELG	0900	Nikkai	1998	Videocon	3163
Elin	0902	Nikkei	1999	Videologic	3165
Elite	0903	Nikko	2000	Videologique	3166
Elta	0910	Nintaus	2006	Videomac	3167
Emerson	0917	Niveus Media	2012	VideoSystem	3172
e-motion	3496	Noblex	2013	Videotechnic	3173
Emprex	0922	Nogamatic	2016	Videoton	3174
Envision	0933	Nokia	2017	Vidikron	3178
Enzer	0934	Norcent	2020	Vidtech	3179
Epson	0937	Nordic	2021	Viewpia	3184
Erres	0942	Nordmende	2022	Viewsonic	3186
ESA	0943	Normerel	2024	Viking	3188
ESC	0945	Northern Star	3501	Viore	3192
Etron	0949	Northgate	2027	Vision	3198
Eurofeel	0954	Norwood Micro	2029	Vistar	3207

<b>TV Brand (A-G)</b>	<b>Brand Code</b>	<b>TV Brand (H-P)</b>	<b>Brand Code</b>	<b>TV Brand (Q-Z)</b>	<b>Brand Code</b>
EuroLine	0955	Novak	2033	Vivid	3210
Euroman	0956	Novatronic	2035	Vizio	3211
Europa	0957	Novita	2037	Voodoo	3215
Europhon	0959	NTC	2045	Vortec	3217
Evesham	0972	Nu-Tec	2048	Voxson	3220
Evesham Technology	3396	NuVision	2053	Vue	3225
Evolution	0973	Oceanic	2061	Waltham	3230
Excello	0975	Odeon	2064	Wards	3231
Expert	0976	Okano	2065	Warumaia	3232
Exquisit	0978	Olevia	2067	Watson	3233
Fenner	0994	Olidata	2068	Watt Radio	3234
Ferguson	0996	Omega	2072	Waycon	3237
Fidelity	0998	Omni	2074	Wega	3238
Filsai	1000	Onida	2081	Wegavox	3239
Finlandia	1003	Onimax	2082	Welltech	3244
Finlux	1004	Onwa	2087	Weltblick	3245
Fintec	1006	Opera	2090	Weltstar	3247
Firstline	1008	Oppo	2092	Westinghouse	3249
Fisher	1009	Optimus	2095	Weston	3251
Flint	1014	Optoma	2097	Wharfedale	3255
Force	1021	Optonica	2099	White Westinghouse	3258
Formenti	1023	Orbit	2103	Wilson	3260
Formenti-Phoenix	1024	Orion	2111	Windsor	3265
Fortress	1027	Orline	2113	Windy Sam	3267
Fraba	1030	Ormond	2114	Wintel	3271
Friac	1040	Orsowe	2116	World-of-Vision	3282
Frigidaire	1041	Osaki	2118	Woxter	3286
Frontech	1042	Osio	2121	Wyse	3288
Fujimaro	1050	Oso	2122	Xenius	3297
Fujitsu	1052	Osume	2123	Xiahua	3299
Fujitsu General	1053	Otic	2125	XLogic	3310
Fujitsu Siemens	1054	Otto Versand	2126	Xoro	3315
Funai	1056	Pacific	2135	Xrypton	3317
Furi	1057	Packard Bell	2138	Yakumo	3324
Furichi	1058	Palladium	2145	Yamaha	3326
Futronic	1061	Palsonic	2147	Yamishi	3328
Futuretech	1064	Panama	2149	Yapshe	3329
Galaxi	1068	Panasonic	2153	Yokan	3335
Galaxis	1069	Panavision	2154	Yoko	3336
Gateway	1076	Panda	2155	Yorx	3340
GBC	1078	Pathe Cinema	2168	Ytaiwai	3344
GE	1081	Pathe Marconi	2169	Zanussi	3349

<b>TV Brand (A-G)</b>	<b>Brand Code</b>	<b>TV Brand (H-P)</b>	<b>Brand Code</b>	<b>TV Brand (Q-Z)</b>	<b>Brand Code</b>
Geant Casino	1082	Pausa	2171	Zenith	3356
GEC	1083	Peng Sheng	2181	Zonda	3369
Geloso	1087	Penney	2182	ZT Group	3370
General	1090	Perdio	2185	Weltstar	3247
General Electric	1091	Perfekt	2186	Westinghouse	3249
General Technic	1095	Petters	2189	Weston	3251
Genesis	1096	Philco	2192	Wharfedale	3255
Genexxa	1097	Philex	2193	White Westinghouse	3258
Gericom	1103	Philharmonic	2194	Wilson	3260
G-Hanz	3397	Philips	2195	Windsor	3265
Giant	1113	Phocus	2198	Windy Sam	3267
Gibraltar	1114	Phoenix	2199	Wintel	3271
Go Video	1126	Phonola	2201	World-of-Vision	3282
Gold Vision	1132	Pilot	2207	Woxter	3286
Goldfunk	1135	Pioneer	2212	Wyse	3288
GoldStar	1140	Pionier	2213	Xenius	3297
Gooding	1141	Plantron	2219	Xiahua	3299
Goodmans	1142	Playsonic	2224	XLogic	3310
Gorenje	1144	Polaroid	2230	Xoro	3315
GP	1147	Policom	2231	Xrypton	3317
GPM	1149	Poppy	2236	Yakumo	3324
GPX	1150	Portland	2238	Yamaha	3326
Gradiente	1151	Powerpoint	2241	Yamishi	3328
Graetz	1152	Prandoni-Prince	2242	Yapshe	3329
Gran Prix	1153	Precision	2244	Yokan	3335
Granada	1154	Premier	2248	Yoko	3336
Grandin	1156	President	2250	Yorx	3340
Gronic	1160	Prima	2253	Ytawai	3344
Grundig	1162	PrimeView	3513	Zanussi	3349
Grunkel	1164	Princess	3514	Zenith	3356
Grunpy	1165	Princeton	2258	Zonda	3369
GVA	3510	Pringston	2259	ZT Group	3370
		Prinz	2260		
		Prism	2261		
		Profex	2269		
		Profi	2270		
		Profilo	2272		
		Profitronic	2273		
		Proline	2274		
		Proscan	2279		
		Prosco	2280		

<b>TV Brand (A-G)</b>	<b>Brand Code</b>	<b>TV Brand (H-P)</b>	<b>Brand Code</b>	<b>TV Brand (Q-Z)</b>	<b>Brand Code</b>
		Prosonic	2282		
		Protech	2284		
		Proton	2288		
		Protron	2289		
		Proview	2290		
		ProVision	2291		
		Proxima	2292		
		Pulsar	2296		
		Pvision	2300		
		Pye	2302		
		Pymi	2304		

## 5 TV Brand Code-set Manual Load List

The following table lists remote control codes for control of a TV using the Exterity remote control handset v5. Refer to [Manual Code-set Entry Programming \(1+6\)](#) on page 11 to apply the code.

Brands	Count	Code-sets
A.R. Systems	5	1709, 1654, 1442, 1011, 1078
ABS	1	1408
Accent	4	1442, 1709, 1429, 1011
Acer	6	1799, 2190, 1828, 1855, 1041, 1259
Acoustic Solutions	10	1873, 1882, 1835, 1762, 1831, 1916, 1759, 1216, 1298, 1667
Action	1	1169
Acura	1	1429
Adcom	1	1705
Addison	2	1044, 1103
ADL	1	1778
Admiral	7	1448, 1660, 1473, 1504, 1009, 1023, 1022
Advent	8	1849, 1751, 1521, 1476, 1376, 1285, 1594, 1176
Adventura	1	1100
Adyson	1	1490
AEG	13	1699, 1759, 1762, 2021, 1802, 2197, 1769, 2096, 2239, 2166, 1216, 1230, 1313
Afron	1	1209
Agashi	2	1490, 1504
AGB	1	1678
Agfaphoto	1	2450
Aiko	12	1442, 1709, 1653, 1439, 1647, 1485, 1504, 1490, 1429, 1015, 1011, 1681
Aim	6	1442, 1709, 1674, 1011, 1124, 1132
Airis	1	1834
Aiwa	4	1726, 1724, 1823, 1034
Akai	48	1647, 1487, 1653, 1442, 1485, 1439, 2096, 1882, 1793, 1916, 1714, 1743, 1786, 1935, 2021, 1504, 1484, 1699, 1696, 1759, 1728, 1709, 1686, 1666, 1490, 1706, 1429, 1492, 1688, 1727, 1473, 1678, 1795, 1443, 1427, 1156, 1061, 1524, 1432, 1114, 1612, 1011, 1333, 1070, 1157, 1078, 1127, 1132
Akashi	2	1429, 1112
Akiba	5	1492, 1442, 1709, 1513, 1011
Akira	5	2241, 1660, 2333, 1132, 1367
Akito	3	1442, 1709, 1011
Akura	27	1873, 1831, 1896, 1843, 1442, 2059, 1727, 1982, 1801, 2239, 1907, 1709, 1719, 1658, 1429, 1492, 1504, 1759, 1879, 1011, 1024, 1105, 1127, 1216, 1263, 1313, 1667
Alaron	1	1022
Alba	24	1694, 1664, 1935, 1925, 1916, 1492, 1473, 1668, 1660, 1649, 1496, 1653, 1719, 1759, 1709, 1727, 1429, 1697, 1666, 1011, 1105, 1127, 1216, 1603
Albatron	2	1257, 1477
AlfaView	1	1775



<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Alfide	1	1524
Alien	1	1759
Alienware	1	1408
Alkos	1	1439
Allorgan	2	1513, 1490
Allstar	3	1442, 1709, 1011
All-Tel	1	1750
America Action	1	1036
Amitech	4	1789, 1717, 1816, 1912
Amoi	2	1833, 2342
Amplivision	3	1490, 1649, 1644
Ampro	1	1475
Amstrad	16	1429, 1678, 1504, 1653, 1492, 1442, 1907, 1709, 1658, 1759, 1714, 1802, 1982, 1011, 1024, 1216
Anam	5	1442, 1429, 1036, 1011, 1096
Anam National	5	1715, 1442, 1011, 1096, 1169
Andersson	4	1769, 1762, 1843, 1230
Anglo	2	1429, 1504
Anhua	1	1019
Anitech	5	1429, 1504, 1442, 1709, 1011
Ansonic	14	1649, 1442, 1709, 1429, 1719, 1654, 1662, 1449, 1473, 1510, 1655, 1809, 1011, 1105
AOC	17	1846, 2111, 2214, 1705, 1018, 1061, 1183, 1568, 1569, 1361, 1600, 1635, 1044, 1333, 1089, 1009, 1135
Aomni	1	1570
Apex Digital	9	1058, 1112, 1520, 1111, 1088, 1551, 1163, 1634, 1053
Apple	1	1505
Arc En Ciel	1	1468
Arcam	1	1490
Arcelik	1	1727
Ardem	6	1442, 1709, 1727, 1707, 1011, 1127
Arena	2	1442, 1011
Aristona	4	1709, 1442, 1011, 1078
ART	2	1759, 1216
Art Mito	2	1843, 1907
Arthur Martin	1	1473
ASA	3	1928, 1449, 1473
Asberg	3	1442, 1709, 1011
Asora	1	1429
Astar	3	1434, 1575, 1738
Astra	2	1442, 1011
Astro	1	1713
Asuka	3	1492, 1490, 1504
ATD	1	1722
Atec	2	1847, 1883

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Atlantic	4	1442, 1709, 1644, 1011
Atori	1	1429
Auchan	1	1473
Audiosonic	21	1442, 1709, 1468, 1727, 1728, 1490, 1925, 1429, 1902, 1793, 1654, 1649, 1504, 1492, 1662, 1750, 1011, 1127, 1168, 1681, 1603
Audioton	4	1490, 1649, 1504, 1662
Audiovox	8	1036, 1015, 1106, 1528, 1541, 1455, 1135, 1182
Audioworld	1	1722
Aumark	1	1444
Autovox	4	1683, 1646, 1490, 2172
Aventura	1	1024
Avol	1	1907
Awa	7	1699, 1462, 1429, 1490, 1803, 1044, 1681
Axxent	1	1429
Axxon	1	1127
Azuki	1	2239
B&D	1	1778
Baier	3	1751, 1802, 2239
Baile	1	1104
Baird	6	1490, 1487, 1772, 1699, 1468, 1070
Bang & Olufsen	2	1453, 1081
Barco	3	1688, 1473, 1078
Basic Line	16	1654, 1442, 1473, 1719, 1709, 1429, 1762, 1492, 1490, 1759, 1769, 1011, 1078, 1105, 1216, 1230
Bastide	1	1490
Bauer	1	1851
Baur	14	1682, 1069, 1677, 1442, 1709, 1567, 1690, 1485, 1647, 1683, 1646, 1823, 1011, 1077
Baysonic	1	1023
Bazin	1	1490
BBK	2	1831, 1890
Beaumark	2	1484, 1333
Beijing	4	1070, 1104, 1157, 1170
Beko	17	1727, 1728, 1442, 1662, 1649, 1660, 1902, 1793, 1709, 1699, 1740, 1868, 2200, 1439, 1011, 1127, 1652
Belcor	1	1018
Bell & Howell	1	1043
Belson	3	2241, 2032, 1722
Belstar	2	1759, 1216
Bennett	2	1709, 1442
BenQ	9	1838, 1839, 1880, 1777, 1545, 1557, 1136, 1041, 1316
Bensten	2	1795, 1805
Beon	4	1442, 1709, 1660, 1011
Berthen	3	1719, 1709, 1105
Best	1	1649

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Bestar	5	1442, 1709, 1649, 1654, 1011
Bestar- Daewoo	1	1654
Bestwell	1	1795
BGH	3	1326, 1201, 1211
Binatone	1	1490
Black Diamond	9	1759, 1709, 1769, 1703, 1132, 1168, 1170, 1216, 1230
Black Stripe	1	1439
Blackway	1	1492
Blaupunkt	6	1690, 1069, 1485, 1682, 1641, 1483
Blue Media	2	1883, 1847
Blue Sky	29	1442, 1759, 1727, 1668, 1719, 1728, 1879, 1762, 1740, 1801, 1889, 1802, 1705, 1868, 1703, 1709, 1492, 1674, 1011, 2153, 1089, 1078, 1553, 1105, 1127, 1216, 1249, 1263, 1652
Boca	2	1868, 1652
Boman	1	1802
Boots	2	1490, 1429
Bork	2	1801, 1263
Bosch	1	1644
BPL	10	1442, 1709, 1487, , 1472, 1070, 1284, 1286, 1011, 1210, 1310
Bradford	1	1036
Brandt	8	1705, 1468, 1509, 1692, 1727, 1079, 1089, 1127
Brandt Electronique	1	1509
Brimax	1	1879
Brinkmann	7	1442, 1709, 1719, 1476, 1660, 1011, 1105
Brionvega	3	1442, 1709, 1011
Bristol	1	2090
Britannia	1	1490
Brockwood	1	1018
Broksonic	5	1028, 1023, 1121, 1382, 1114
Brother	1	1504
Bruns	1	1662
BSR	4	1473, 1513, 1688, 1647
BTC	1	1492
Bush	52	1795, 1917, 1793, 2056, 1925, 2214, 1736, 1920, 1873, 1504, 1647, 1668, 1487, 1490, 1653, 1496, 1654, 1476, 1719, 1868, 1492, 1473, 1646, 1429, 1759, 1727, 1442, 1831, 1954, 1762, 1718, 1664, 1786, 1982, 1876, 1697, 1722, 1513, 1688, 1709, 1643, 1011, 1070, 1078, 1105, 1127, 1216, 1313, 1298, 1652, 1667, 1603
Byd:sign	1	1556
Cailing	1	1112
Caishi	1	1209
Cameron	2	1831, 1298
Camper	3	1442, 1709, 1011
Candle	4	1061, 1100, 1363, 1007
Canton	1	1492

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Capsonic	1	1504
Carad	7	1701, 1442, 1709, 1719, 1759, 1105, 1216
Carena	3	1442, 1709, 1011
Carnivale	1	1061
Carrefour	3	1442, 1709, 1011
Carver	2	1483, 1047
Cascade	4	1429, 1442, 1709, 1011
Casio	5	1442, 1709, 1473, 1646, 1011
Cat	2	1876, 2155
Cathay	4	1442, 1709, 1882, 1011
CCE	3	1442, 1490, 1011
Celebrity	2	1616, 1001
Celera	1	1111
Celestial	2	1168, 1170
cello	2	1907, 1896
Centrex	1	1209
Centrum	2	1759, 1216
Centurion	3	1442, 1709, 1011
CGE	4	1660, 1688, 1649, 1473
Changcheng	2	1019, 1104
Changfeng	1	1132
Changhong	9	1111, 1053, 1076, 1058, 1088, 1168, 1550, 1170, 1476
Chun Yun	5	1001, 1565, 1042, 1124, 1616
Chung Hsin	2	1092, 1044
Cimline	3	1429, 1496, 1492
Cinema	1	1524
Cineral	1	1135
Cinex	3	1714, 1982, 1313
Citizen	11	1444, 1073, 1061, 1015, 1363, 1007, 1101, 1114, 1100, 1671 1672
City	1	1429
Clarion	1	1036
Clarivox	4	1660, 1442, 1709, 1011
Classic	1	1674
Clatronic	18	1442, 1649, 1653, 1727, 1492, 1504, 1714, 1699, 1802, 1769, 1874, 1490, 1429, 1644, 1694, 1709, 1011, 1127
Clayton	2	1759, 1216
CME	1	1713
CMS Hightec	1	1490
Coby	14	1460, 1572, 1617, 1619, 1628, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1410, 2345
Commercial Solutions	5	1000, 1094, 1164, 1012, 1447
Concerto	1	1363
Concorde	1	1429

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Condor	10	1644, 1442, 1709, 1649, 1429, 1660, 1655, 1473, 1504, 1011
Conia	4	1831, 1168, 1170, 1298
Conrac	1	1740
Conrad	2	1442, 1709
Conrowa	6	1051, 1053, 1058, 1722, 1550, 1132
Contec	6	1429, 1504, 1442, 1709, 1036, 1011
Continental	1	2357
Continental Edison	3	1468, 1509, 1668
Cosmel	4	1429, 1442, 1709, 1011
CPRTec	2	1705, 1801
Craig	1	1036
Crosley	5	1688, 1473, 1616, 1047, 1001
Crown	26	1429, 1649, 1442, 1709, 1668, 1716, 1759, 1868, 1719, 2021, 1727, 1699, 1728, 1660, 1694, 1487, 1658, 1036, 1011, 1070, 1524, 1105, 1125, 1127, 1216, 1652
Crown Mustang	1	1524
CS Electronics	1	1492
C-Tech	2	1209, 1210
CTX	1	1042
Curtis	3	1629, 1642, 1320
Curtis Mathes	23	1444, 1448, 1470, 1482, 1094, 1047, 1043, 1135, 1009, 1073, 1156, 1061, 1051, 1118, 1385, 1558, 1548, 1068, 1363, 1012, 1056, 1228, 1347
CXC	1	1036
Cyberpix	1	1873
CyberPower	1	1408
Cybertron	1	1492
Cytron	2	1232, 1456
Cytronix	1	1815
D.Boss	1	1442
Daewoo	42	1708, 1718, 1674, 1703, 1654, 1727, 2275, 2037, 1736, 1912, 1921, 1754, 1751, 1848, 1750, 1722, 1442, 1709, 1429, 1492, 1490, 1760, 2333, 1924, 1903, 1847, 1803, 1018, 1043, 1135, 1015, 1118, 1106, 1524, 1011, 1333, 1044, 1104, 1093, 1078, 1112, 1602
Dainichi	1	1492
Dansai	9	1490, 1487, 1442, 1709, 1504, 1439, 1429, 1011, 1070
Dansette	1	1658
Dantax	11	1649, 1727, 1699, 1728, 1868, 1759, 1769, 1127, 1216, 1230, 1652
Datron	1	1011
Datsura	2	1487, 1070
Dawa	4	1442, 1709, 1429, 1011
Daytek	1	1803
Dayton	1	1429
Daytron	5	1429, 1654, 1442, 1709, 1018
Dayu	1	1104
De Graaf	4	1487, 1473, 1686, 1070
DEC	3	1795, 1112, 1209

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Decca	6	1678., 442, 1709, 1490, 1760, 1011
Dell	4	1142, 1141, 1146, 1409
Denko	1	1504
Denon	2	1470, 1051
Denver	16	1442, 1709, 1699, 1697, 1988, 1802, 2172, 2197, 1874, 1907, 2096, 2021, 1879, 2139, 1896, 1011
Desmet	5	1644, 1442, 1709, 1429, 1011
DGM	2	2239, 2059
Diamant	3	1442, 1709, 1011
Diamond	7	1429, 1653, 1722, 1124, 1168, 1112, 1210
Diamond Vision	2	1499, 1461
DiBoss	2	1442, 1709
Dick Smith Electronics	2	1722, 1313
Digatron	3	1442, 1709, 1011
Digihome	3	1873, 1762, 1667
Digiline	5	1442, 1709, 1719, 1011, 1105
DigiLogic	2	1442, 1709
DigiMax	1	1209
Digisonic	1	1591
Digital Device	1	1847
Digital Life	1	1209
Digital Lifestyles	1	1582
Digitek	1	1879
Digitex	1	1168
Digitor	2	1011, 1722
Digitrex	1	2056
Digivision	1	1647
Digix	1	1754
Digix Media	1	1754
DiK	2	1442, 1709
DirecTV	1	1291
diVision	1	2239
Dixi	5	1429, 1442, 1709, 1490, 1011
DL	3	1795, 1209, 1263
DMTech	3	1964, 1798, 2001
Domeos	4	1719, 1442, 1759, 1105
Doric	1	1646
Dream Vision	1	1894
Drean	1	1011
DSE	3	1722, 1168, 1313
DTS	1	1429
Dual	22	1683, 1646, 1490, 1476, 1784, 1736, 2032, 2241, 1802, 1769, 1473, 1760, 1773, 1706,

Brands	Count	Code-sets
		1762, 1759, 1442, 1709, 1688, 1011, 1216, 1230
Dual Tec	1	1490
Dumont	4	1449, 1490, 1018, 1020
Dunai	2	1683, 1473
Durabrand	12	1442, 1809, 1709, 1988, 1868, 1759, 1023, 1036, 1333, 1024, 1481, 1652
Dux	3	1442, 1709, 1011
D-Vision	5	1982, 1442, 1709, 1011, 1078
DVX	1	1209
Dwin	2	1474, 1068
DX Antenna	1	1817
Dynatech	1	1490
Dynatron	3	1442, 1709, 1011
Dynex	3	1511, 1609, 1507
Dyon	1	2241
E:max	3	1802, 1699, 1834
Easy Living	13	1752, 1872, 2254, 1791, 1879, 1849, 1778, 1793, 2023, 20051786, 1925, 1603
Ecco	1	1140
ECE	2	1442, 1011
Edison-Minerva	1	1668
Eiki	1	1730
Elbe	15	1655, 1701, 1510, 1649, 1473, 1442, 1688, 1709, 1492, 1485, 1490, 1678, 1647, 1011, 1078
Elbe-Sharp	1	1678
Elcit	3	1678, 1688, 1473
Electrion	1	1843
Electroband	2	1616, 1001
Electrograph	2	1038, 1570
Electrohome	3	1023, 1114, 1672
Elekta	4	1429, 1442, 1709, 1504
Elektra	2	1020, 1118
Element	3	1407, 1608, 1565
Elfunk	3	1759, 1776, 1216
ELG	3	1442, 1709, 1011
Elin	9	1442, 1709, 1449, 1686, 1647, 1646, 1473, 1429, 1011
Elite	5	1492, 1442, 1709, 1644, 1011
Elta	2	1429, 1504
Emerson	35	1442, 1727, 1703, 1649, 1473, 1719, 1709, 1653, 1644, 1647, 1018, 1484, 1465, 1020, 1043, 1135, 1028, 1023, 1036, 1333, 1024, 1118, 1027, 1382, 1145, 1121, 1150, 1106, 1512, 1101, 1022, 1011, 1105, 1127, 1383
e-motion	1	1879
Emprex	3	1900, 1438, 1582
Encross	1	1201
Envision	6	1061, 1529, 1183, 1568, 1361, 1600
Enzer	2	1132, 1112

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Epson	4	1887, 1533, 1422, 1451
Erisson	1	1876
Erres	3	1442, 1709, 1011
ESA	4	1443, 1024, 1027, 1157
ESC	4	1442, 1709, 1490, 1011
Estele	2	1688, 1473
Etron	5	1442, 1709, 1429, 1473, 1168
Eurofeel	2	1504, 1490
EuroLine	1	1442
Euroman	6	1504, 1442, 1709, 1490, 1649, 1011
Europa	3	1442, 1709, 1011
Europhon	7	1442, 1678, 1473, 1490, 1709, 1688, 1011
Evesham	5	1873, 1786, 1883, 1847, 1667
Evesham Technology	1	1883
Evolution	1	1042
Excel	2	1442, 1709
Excello	2	1759, 1216
Expert	1	1473
Exquisit	3	1442, 1709, 1011
Fenner	2	1654, 1429
Ferguson	23	1705, 1509, 1468, 1692, 1442, 1954, 1647, 1686, 1664, 1759, 1935, 1709, 1439, 1716, 1449, 1462, 1069, 1843, 2090, 1011, 1079, 1089, 1216
Fidelity	12	1677, 1473, 1647, 1442, 1709, 1653, 1658, 1504, 1683, 1011, 1024, 1077
Filsai	1	1490
Finlandia	7	1686, 1647, 1473, 1509, 1487, 1928, 1070
Finlux	26	1449, 1442, 1709, 1727, 1928, 1740, 1786, 1666, 1660, 1699, 1773, 1728, 1655, 1706, 1669, 1843, 1873, 1490, 1688, 1473, 1678, 1011, 1078, 1127, 1313, 1667,
Fintec	1	1982
Firstline	30	1442, 1709, 1654, 1719, 1727, 1703, 1793, 1647, 1759, 1740, 1801, 1769, 1848, 1490, 1655, 1683, 1646, 1496, 1487, 1473, 1429, 1513, 1688, 1011, 1070, 1078, 1105, 1127, 1216, 1263
Fisher	10	1449, 1490, 1487, 1649, 1646, 1647, 1688, 1473, 1683, 1043
Flint	6	1442, 1709, 1701, 1492, 1504, 1011
Force	1	1762
Formenti	6	1473, 1442, 1709, 1644, 1688, 1011
Formenti-Phoenix	2	1644, 1688
Fortress	2	1448, 1009
Fraba	4	1442, 1709, 1649, 1011
Friac	8	1429, 1442, 1709, 1649, 1674, 1717, 1701, 1011
Frigidaire	1	1591
Frontech	5	1504, 1646, 1490, 1429, 1473
Fujimaro	2	1750, 1565
Fujitsu	11	1709, 1647, 1490, 1473, 1429, 1442, 1518, 1022, 1007, 1029, 1538
Fujitsu General	3	1429, 1490, 1473



<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Fujitsu Siemens	7	1769, 1740, 2174, 1872, 1815, 1786, 1230
Funai	23	1904, 1804, 1759, 1872, 1719, 1504, 1513, 1658, 1823, 1727, 1616, 1036, 1024, 1022, 1554, 1090, 1027, 1001, 1105, 1127, 1216, 1150, 1817
Furi	1	1051
Furichi	1	1112
Futronic	3	1504, 1834, 1112
Future	2	1442, 1709
Futuretech	1	1036
Gaba	2	1759, 1216
Galaxi	5	1442, 1709, 1647, 1473, 1011
Galaxis	5	1649, 1660, 1442, 1709, 1011
Galeria	1	1429
Gateway	3	1038, 1042, 1408
GBC	5	1688, 1473, 1429, 1654, 1492
GE	26	1730, 1448, 1484, 1926, 1000, 1094, 1049, 1135, 1333, 1021, 1063, 1512, 1068, 1558, 1380, 1153, 1385, 1386, 1012, 1019, 1089, 1079, 1633, 1347, 1447, 2359
Geant Casino	1	1473
GEC	8	1473, 1647, 1646, 1442, 1678, 1709, 1490, 1011
Geloso	4	1429, 1688, 1473, 1654
General	2	1468, 1509
General Electric	1	1509
General Technic	1	1429
Genesis	1	1011
Genexxa	7	1492 1442, 1709, 1658, 1473, 1429, 1011
Gericom	8	1778, 1754, 1740, 1847, 1807, 1750, 1815, 1775
GFM	2	1024, 1027
G-Hanz	2	1801, 1263
Giant	2	1429, 1490
Gibraltar	3	1018, 1020, 1061
Gibson	1	1591
Go Video	2	1444, 1480
Gold	2	2023, 1896
Gold Vision	1	1718
Goldfunk	2	1719, 1105
GoldStar	20	1442, 1429, 1649, 1490, 1709, 1728, 1473, 1647, 1468, 1699, 1727, 1018, 1484, 1333, 1061, 1050, 1363, 1043, 1011, 1127
Gooding	1	1668
Goodmans	50	1786, 1728, 1708, 1759, 1703, 1831, 1873, 1876, 1881, 2056, 1754, 1793, 1697, 1803, 1762, 1882, 1490, 1492, 1694, 1718, 1920, 1653, 1496, 1439, 1666, 1692, 1654, 1504, 1678, 1429, 1668, 1442, 1674, 1709, 1727, 1719, 1705, 1769, 1740, 1011, 1078, 1079, 1089, 1093, 1105, 1127, 1216, 1230, 1298, 1667
Gorenje	3	1649, 1843, 1873
GP	1	1132
GPM	1	1492

Brands	Count	Code-sets
GPX	1	1022
Gradiente	4	1442, 1483, 1092, 1011
Graetz	10	1647, 1653, 1473, 1442, 1709, 1769, 1727, 1668, 1127, 1230
Gran Prix	2	1714, 2333
Granada	16	1442, 1709, 1495, 1686, 1692, 1473, 1493, 1665, 1462, 1487, 1490, 1678, 1011, 1044, 1070, 1079
Grandin	24	1868, 1759, 1750, 1754, 1728, 1719, 1654, 1644, 1492, 1694, 1442, 1709, 1429, 1473, 1701, 1727, 1815, 1775, 1703, 1011, 1078, 1105, 1127, 1216
Gronic	2	1490, 1473
Grundig	38	1069, 1779, 1682, 1485, 1841, 1690, , 802, 2663, 1917, 1873, 2239, 2200, 1786, 1731, 1935, 1793, 1484, 1803, 1902, 1709 ,1697 ,1429, 1649, 1641, 1759, 1668, 1442, 1664, 1954, 1923, 1029, 1011, 1524, 1078, 1124, 1237, 1667, 2007
Grunkel	2	1769, 1230
Grunpy	2	1036, 1022
GVA	1	1263
H&B	2	1740, 2001
Haaz	1	1124
Haier	14	1722, 1504, 1851, 1837, 1481, 1491, 1501, 1146, 1011, 1076, 1209, 1210, 1426, 1405
Halifax	2	1504, 1490
Hallmark	2	1484, 1333
Hampton	1	1490
Hanimex	2	1492 1513
Hankook	1	1333
Hanns.G	2	1849, 1587
Hannspree	8	1800, 1849, 2027, 2214, 1559, 1577, 1587, 1591
Hanseatic	27	1442, 1709, 1674, 1476, 1705, 2001, 1964, 1513, 1490, 1727, 1740, 1644, 1708, 1662, 1649, 1718, 1429, 1646, 1473, 1647, 1510, 1683, 1011, 1078, 1089, 1093, 1127
Hantarex	8	1429, 1442, 1709, 1678, 1798, 1750, 2197, 1011
Hantor	3	1442, 1709, 1011
Harley Davidson	2	1022, 1090
Harman/Kardon	1	1047
Harsper	2	1750, 1775
Harvard	1	1036
Harwa	2	1772, 1140
Harwood	6	1429, 1658, 1442, 1709, 1668, 1011
Hauppauge	4	1442, 1709, 1503, 1011
Havermy	2	1448, 1009
HB	1	1802
HCM	10	1429, 1658, 1442, 1709, 1490, 1492, 1660, 1504, 1772, 1011
Hedzon	2	1709, 1442
Helios	1	1446
Hello Kitty	1	1135
Hema	2	1490, 1429

Brands	Count	Code-sets
Hemmermann	2	1646, 1683
Heran	1	1591
Herosonic	1	1591
Hewlett Packard	4	1419, 1408, 1452, 1289
Hifivox	1	1468
Highline	4	1504, 1442, 1709, 1011
Hikona	2	1492, 1643
Hinari	13	1504, 1473, 1664, 1668, 1496, 1513, 1487, 1442, 1709, 1429, 1492, 1011, 1070
Hisawa	4	1492, 1701, 1727, 1127
Hisense	24	1801, 1924, 2037, 1709, 1676, 1429, 1487, 1112, 1602, 1630, 1637, 1051, 1053, 1058, 1076, 1070, 1078, 1550, 1132, 1170, 1249, 1608, 1263, 2341
Hitachi	66	1840, 1897, 1693, 1729, 1915, 1493, 2000, 1669, 1647, 1752, 1490, 1709, 1468, 1686, 1484, 1760, 1674, 1762, 1666, 1678, 1442, 1665, 1688, 2214, 1769, 1771, 1873, 1708, 1473, 1646, 1732, 1843, 1759, 1821, 1820, 1462, 2005, 1470, 1471, 1030, 1522, 1051, 1363, 1086, 1344, 1206, 1328, 1090, 1011, 1058, 1044, 1053, 1333, 1076, 1550, 1032, 2431, 1319, 1418, 1355, 1223, 1093, 1398, 1216, 1230, 1667
Hitachi Fujian	6	1462, 1471, 1493, 1044, 1032, 1112
Hitec	1	1722
Hitsu	3	1429, 1701, 1492
Hoeher	6	1727, 1750, 1769, 1127, 1230, 1313
Home Electronics	1	1699
Hongmei	1	1009
Horizont	1	1852
Hornyphon	3	1442, 1709, 1011
Hoshai	1	1492
Howard Computers	1	1408
HP	4	1419, 1408, 1452, 1289
Huafa	1	1051
Huanyu	1	1654
Huari	1	1051
Hugoson	2	1872, 1778
Humax	4	1792, 1908, 1291, 1295
Huodateji	1	1019
Hush	1	1408
HYD	1	1803
Hygashi	1	1490
Hyper	2	1429, 1490
Hypersonic	1	1647
Hypson	13	1442, 1709, 1727, 1490, 1759, 1719, 1728, 1504, 1011, 1078, 1105, 1127, 1216
Hyundai	24	1789, 1816, 1919, 1830, 1791, 1736, 1848, 1750, 1751, 1847, 1803, 1795, 1907, 2139, 1479, 1722, 1132, 1112, 1216, 1298, 1313, 1681, 2454, 1124
Iberia	3	1442, 1709, 1011
iBUYPOWER	1	1408
ICE	8	1504, 1442, 1653, 1429, 1709, 1492, 1490, 1011
ICeS	1	1492

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
ICT	3	1442, 1760, 1709
iDEAL	1	1313
I-Inc	1	1578
IISonic	3	1803, 1829, 1849
Iiyama	3	1778, 2254, 1752
Ikasu	1	1874
iLo	4	1040, 1436, 1435, 1457
Imperial	13	1442, 1473, 1649, 1709, 1655, 2090, 1676, 2197, 1688, 1647, 1646, 1660, 1011
Imperial Crown	1	1104
Indiana	3	1442, 1709, 1011
Infinity	1	1047
InFocus	4	1775, , 1808, 1611, 1450
Ingelen	7	1668, 1701, 1727, 1473, 1647, 1809, 1127
Ingersol	1	1429
Initial	2	1436, 1457
Inno Hit	11	1429, 1442, 1709, 1492, 1490, 1678, 1769, 1843, 1759, 1216, 1230
Innova	1	1011
Innovation	3	1476, 1442, 1709
Innowert	2	1750, 1815
Inotech	2	1140, 1168
Insignia	14	1501, 1519, 1024, 1232, 1437, 1507, 1511, 1027, 1596, 1601, 1636, 1235, 1405, 2002
Inspira	1	1313
Inteq	1	1020
Interactive	8	1442, 1709, 1677, 1655, 1473, 1647, 1649, 1468
Interbuy	6	1429, 1442, 1504, 1677, 1709, 1011
Interfunk	10	1468, 1646, 1677, 1473, 1647, 1649, 1442, 1709, 1011, 1077
Internal	6	1442, 1709, 1703, 1674, 1654, 1078
Intervision	12	1490, 1442, 1653, 1476, 1649, 1429, 1709, 1668, 1492, 1473, 1504, 1011
iPure	1	1803
Irradio	8	1429, 1442, 1709, 1492, 1653, 2021, 1727, 1011
IRT	3	1722, 1135, 1118
Isukai	4	1492, 1442, 1709, 1011
ITC	3	1490, 1688, 1644
ITS	7	1442, 1653, 1492, 1504, 1429, 1709, 1011
ITT	15	1473, 1666, 1646, 1647, 1831, 1792, 1908, 1917, 1686, 1928, 1487, 1696, 1683, 1701, 1070
ITT Nokia	12	1647, 1686, 1473, 1666, 1646, 1928, 1487, 1696, 1699, 1701, 1706, 1070
ITV	5	1504, 1442, 1709, 1654, 1011
Janeil	1	1100
JBL	1	1047
JCB	2	1616, 1001
JDV	1	1982

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Jean	4	1829, 1053, 1019, 1058
JEC	1	1439
Jensen	4	1521, 1376, 1285, 1594
JGC	2	1874, 1879
Jiahua	1	1019
Jinfeng	2	1070, 1019
Jinxing	8	1011, 1051, 1053, 1047, 1058, 1078, 1722, 1170
JMB	8	1654, 1709, 1664, 1442, 1674, 1708, 1078, 1093
JNC	2	1878, 1210
Jocel	1	1125
JTV	1	1112
Jubilee	2	1709, 1078
JVC	23	1716, 1905, 1653, 1492, 1763, 1660, 1448, 1869, 1715, 2118, 1080, 1585, 1615, 1699, 1023, 1092, 1054, 1169, 1526, 1026, 1076, 1103, 1818
Kaisui	6	1492, 1442, 1709, 1490, 1429, 1011
Kanghua	1	1210
Kangli	1	1104
Kapsch	3	1473, 1647, 1449
Karcher	14	1442, 1709, 1649, 1701, 1473, 1504, 1793, 1736, 1727, 1699, 1982, 1802, 1127, 1313
Kathrein	4	1709, 1442, 1754, 1078
Kawa	1	1653
KB Aristocrat	1	1473
KDS	2	1565, 1407
KEC	1	1036
Ken Brown	2	1023, 1321
Kendo	20	1442, 1709, 1473, 1476, 1769, 1760, 1714, 1843, 1759, 1809, 1762, 1677, 1649, , 1662, 1496, 1513, 1655, 1701, 1011, 1216
Kennedy	2	1473, 1688
Kennex	2	1759, 1216
Kenstar	1	2388
Kenwood	2	1018, 1061
Keydo	1	1878
Keymat	2	1795, 1805
Khind	3	1718, 1124, 1210
KIC	1	1490
Kingsbrook	1	1759
Kiota	1	1653
Kioto	3	1078, 1124, 1047
Kiton	5	1709, 1442, 1719, 1011, 1105
KLH	2	1111, 1088
KLL	1	1011
Kloss	1	1100
Kneissel	10	1674, 1709, 1510, 1442, 1649, 1701, 1655, 1654, 1011, 1078

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Kobra	1	1815
Kolin	11	1092, 1011, 1004, 1463, 1331, 1044, 1032, 1209, 1406, 1038, 1338
Kolster	5	1442, 1709, 1646, 1492, 1011
Konichi	1	1429
Konig	2	1442, 1011
Konka	9	1442, 1709, 1653, 1727, 1660, 1492, 1112, 1011, 1127
Kontakt	1	1668
Korpel	3	1442, 1709, 1011
Korting	2	1649, 1644
Kosmos	3	1442, 1709, 1011
Kotron	3	1658, 1504, 1920
Koyoda	1	1429
Kreisen	2	1751, 1201
KTV	4	1490, 1036, 1061, 1101
Kuba	2	1646, 1473
Kuba Electronic	2	1473, 1646
Kunlun	3	1070, 1019, 1104
Kyoshu	3	1658, 1660, 1504
Kyoto	2	1473, 1490
L&S Electronic	4	1750, 1727, 1740, 1127
LaSAT	1	1649
Lavis	5	1759, 1442, 1473, 1216, 1263
Leader	1	1429
Lecson	3	1442, 1709, 1011
Legend	1	1429
Lemair	1	1655
Lenco	13	1429, 1903, 1442, 1473, 1654, 1709, 1695, 1449, 1697, 1759, 1899, 1011, 1216
Lenoir	1	1429
Lentec	1	1834
Level	1	2023
Levis Austria	2	1442, 1709
Lexsor	1	1772
Leyco	6	1504, 1442, 1709, 1513, 1694, 1011
LG	37	1807, 1792, 1939, 2741, 1854, 1761, 1647, 1484, 1473, 1699, 1468, 1722, 1728, 1429, 1709, 1727, 1490, 1442, 1895, 1649, 1018, 1926, 1927, 1501, 1020, 1333, 1257, 1539, 1146, 1584, 1631, 1011, 1044, 1078, 1127, 1405, 1681
Liesenkotter	3	1442, 1709, 1011
Lifetec	18	1442, 1719, 1759, 1760, 1476, 2001, 1492, 1504, 1786, 1654, 1429, 1677, 1717, 1709, 1011, 1105, 1127, 1216
Linksys	1	1408
Lloyd's	2	1429, 1090
Local India TV	2	1487, 1070
Local Malaysia TV	1	1722
Lodos	3	1759, 1762, 1216

Brands	Count	Code-sets
Loewe	17	1677, 1707, 1918, 1737, 1911, 1709, 1910, 1717, 1649, 1510, 1678, 1901, 1442, 1011, 1077, 1091, 1884
Logik	12	1653, 1754, 1778, 1759, 1831, 1916, 1903, 1722, 1429, 1444, 1140, 1216
Logix	3	1719, 1476, 1105
Luker	1	1982
Luma	8	1442, 1473, 1655, 1709, 1654, 1429, 1759, 1216
Lumatron	8	1504, 2023, 1442, 1709, 1473, 1647, 1490, 1011
Lux May	4	1442, 1429, 1709, 1011
Luxman	2	1694, 1363
Luxor	15	1666, 1669, 1646, 1647, 1487, 1686, 1769, 1473, 1928, 1759, 1490, 1706, 1070, 1216, 1230
LXI	8	1094, 1047, 1043, 1058, 1333, 1068, 1053, 1012
M & S	1	1047
M Electronic	25	1442, 1727, 1708, 1069, 1647, 1868, 1718, 1677, 1669, 1666, 1655, 1654, 1646, , 1928, 1509, 1490, 1473, 1468, 1449, 1429, 1011, 1077, 1093, 1127, 1652
Madison	3	1442, 1709, 1011
MAG	2	1565, 1407
Magnadyne	4	1678, 1688, 1473, 1683
Magnafon	1	1678
Magnasonic	1	1145
Magnavox	26	1442, 1709, 1633, 1309, 1047, 1049, 1061, 1632, 1457, 1027, 1300, 1145, 1090, 1183, 1553, 1329, 1239, 1414, 1528, 1007, 1022, 1124, 1019, 1132, 1866, 1856
Magnin	1	1380
Magnum	9	1714, 1727, 1442, 1709, 1728, 1790, 2023, 1011, 1127
Mandor	1	1504
Manesth	10	1442, 1709, 1496, 1490, 1504, 1644, 1439, 1513, 1473, 1011
Manhattan	10	1442, 1709, 1719, 1759, 1473, 1736, 1751, 1011, 1105, 1216
Manta	1	1874
Maqma	5	1879, 1847, 1900, 1815, 1878
Marantz	16	1442, 1709, 1658, 1919, 1764, 1633, 1047, 1061, 1525, 1214, 1113, 1239, 1549, 1377, 1011, 1078
Mark	9	1442, 1709, 1490, 1654, 1429, 1727, 1728, 1011, 1127
Marks and Spencer	1	1896
Marquant	1	2056
Mascom	2	1917, 1313
Master's	2	1442, 1674
Mastro	4	1092, 1722, 1124, 1313
Masuda	3	1653, 1492, 1011
Matsui	35	1769, 1683, 1759, 1872, 1754, 1873, 1487, 1069, 1485, 1727, 1653, 1694, 1473, 1646, 1678, 1439, 1496, 1490, 1513, 1442, 1709, 1668, 1664, 1923, 1429, 1732, 1935, 2155, 1011, 1070, 1078, 1127, 1216, 1667, 2007
Matsushita	3	1715, 1096, 1169
Maxdorf	2	1140, 1392
Maxent	1	1038
Maxim	2	1982, 1313
MCE	1	1429

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Meck	2	1722, 1209
Media Center PC	1	1408
Medialine	2	1775, 1964
Mediator	4	1442, 1709, 1011, 1078
Medion	31	1727, 1740, 1442, 1476, 1719, 1709, 1790, 1762, 2001, 1873, 1890, 1786, 1500, 1773, 1706, 1754, 1677, 1760, 1722, 1759, 1809, 1920, 1843, 1011, 1077, 1078, 1105, 1127, 1216, 1313, 1667
MegaDrive	1	1786
Megapower	1	1257
Megas	1	1701
Megatron	4	1470,1484, 1333, 1051
MEI	4	1759, 1442, 1709, 1216
Melectronic	23	1928, 1442, 1677, 1468, 1727, 1868, 1703, 1708, 1647, 1485, 1069, 1718, 1669, 1655, 1646, 1473, 1509, 1709, 1449, 1654, 1429, 1490, 1666
Memorex	16	1429, 1759, 1444, 1471, 1484, 1043, 1023, 1032, 1333, 1022, 1511, 1121, 1305, 1165, 1216, 1114
Memphis	1	1429
Mercury	5	1442, 1429, 1709, 1444, 1011
Mermaid	1	1011
Merritt	3	1686, 1647, 1473
Metronic	2	1705, 1089
Metz	14	1648, 1442, 1709, 1719, 1759, 1682, 1690, 1485, 1069, 1769, 1697, 1011, 1105, 1230
MGA	7	1018, 1471, 1484, 1032, 1333, 1061, 1380
Micromaxx	12	1442, 1709, 1719, 1759, 1740, 1802, 2001, 1727, 1011, 1105, 1127, 1216
Microsoft	1	1408
Microspot	1	1850
Microstar	1	1740
MicroTEK	2	1168, 1112
Midland	6	1094, , 1049, 1068, 1020, 1012, 1019
Mikomi	7	1762, 1769, 1732, 1843, 1759, 1793, 1216
Minato	3	1442, 1709, 1011
Mind	1	1408
Minerva	10	1786, 1668, 1682, 1069, 1485, 1690, 1678, 1462, 1471, 1044
Ministry Of Sound	2	1873, 1667
Minoka	4	1658, 1442, 1709, 1011
Mintek	2	1436, 1457
Minutz	1	1021
Mirai	3	1872, 1914, 1909
Mirror	1	1920
Mitsai	1	1313
Mitsubishi	27	1462, 1471, 1677, 1442, 1682, 1709, 1487, 1759, 1018, 1448, 1484, 1005, 1009, 1032, 1333, 1535, 1540, 1153, 1011, 1044, 1043, 1077, 1078, 1241, 1096, 1250,1216
Mitsuri General	1	1473
Mivar	5	1085, 1510, 1649, 1678, 1490



<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Mogen	1	1907
Monaco	1	1429
Monivision	2	1257, 1477
Moree	2	1442, 1011
Morgan's	3	1442, 1709, 1011
Motorola	2	1448, 1009
mp man	1	2450
MTC	11	1649, 1646, 1677, 1473, 1647, 1444, 1073, 1061, 1018, 1363, 1077
MTlogic	3	1793, 1727, 1127
Mudan	2	1070, 1019
Multitec	9	1982, 1442, 1709, 1719, 1759, 1011, 1105, 1216, 1313
Multitech	10	1646, 1429, 1442, 1649, 1709, 1490, 1504, 1688, 1036, 1011
Murphy	3	1449, 1473, 2005
Musikland	3	1442, 1492, 1709
Mx Onda	3	1831, 1907, 2021
MyCom	2	1803, 1484
Myrica	1	1872
Myryad	3	1709, 1442, 1078
NAD	11	1767, 1750, 1442, 1647, 1058, 1333, 1363, 1550, 1011, 1053, 1198
Naiko	6	1442, 1699, 1709, 1982, 1011, 1132
Nakimura	4	1654, 1442, 1709, 1011
Naonis	1	1473
Narita	1	1982
NAT	1	1495
National	4	1495, 1070, 1019, 1076
NEC	30	1483, 1644, 1018, 1429, 1654, 1500, 1674, 1716, 1718, 1490, 1442, 1709, 1525, 2144, 1061, 1363, 1523, 1543, 1377, 1588, 1423, 1053, 1019, 1076, 1333, 1043, 1058, 1092, 1103, 1379
Neckermann	18	1442, 1485, 1649, 1823, 1567, 1682, 1644, 1677, 1660, 1646, 1490, 1655, 1690, 1709, 1688, 1473, 1011, 1078
NEI	7	1442, 1709, 1653, 1473, 1759, 1011, 1216
NEO	1	1802
Neon	2	1885, 1896
Neovia	6	1775, 1750, 1964, 1751, 1803, 1798
Nesx	1	1885
Netsat	2	1442, 1011
NetTV	1	1038
Neufunk	10	1442, 1429, 1695, 1709, 1701, 1492, 1727, 1011, 1078, 1127
New Tech	6	1442, 1429, 1709, 1490, 1011, 1078
New World	1	1492
Newave	2	1333, 1009
Newsonic	1	1591
Nexus Electronics	1	1608
Nicam	1	1683

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Nikai	1	1230
Nikkai	10	1429, 1873, 1492, 1442, 1709, 1490, 1504, 1439, 1874, 1011
Nikkei	3	1727, 2172, 1127
Nikko	4	1484, 1333, 1061, 1015
Nimbro	1	1603
Nintaus	1	1209
Niveus Media	1	1408
Noblex	2	1043, 1011
Nogamatic	1	1468
Nokia	16	1647, 1473, 1666, 1646, 1686, 1669, 1928, 1644, 1701, 1468, 1487, 1654, 1696, 1706, 1699, 1070
Norcent	6	1846, 1112, 1531, 1183, 1568, 1569
Nordic	1	1490
Nordmende	28	1468, 1509, 1692, 1873, 2329, 1769, 1793, 1790, 2001, 1805, 1664, 1923, 1843, 1473, 1786, 1727, 2331, 2332, 1069, 1442, 1709, 1011, 1079, 1127, 1209, 1230, 1667, 2007
Norfolk	1	1473
Normerel	3	1442, 1709, 1011
Nortek	2	1719, 1105
Northern Star	1	1775
Northgate	1	1408
Norwood Micro	1	1040
Novak	2	1442, 1709
Novatronic	4	1442, 1654, 1709, 1011
Novex	2	1831, 1298
Novita	1	1843
NTC	1	1015
Nurnberg	2	1473, 1647
Nu-Tec	3	1722, 1168, 1170
NuVision	2	1573, 1606
O.K.Line	3	1759, 1802, 1216
Oceanic	8	1473, 1647, 1513, 1487, 1686, 1666, 2001, 1070
Odeon	2	1504, 1903
Odys	1	1903
Okano	6	1649, 1442, 1709, 1504, 1429, 1011
OKI	2	1759, 2200
Olevia	7	1406, 1488, 1004, 1463, 1421, 1331, 1338
Olidata	1	1803
Omega	1	1504
Omni	2	1722, 1209
Onei	2	1873, 1667
Onida	4	1103, 1092, 1026, 2396
Onimax	2	1727, 1127
Onn	7	1762, 1879, 2166, 1709, 1873, 1896, 1667
Onwa	3	1653, 1492, 1036

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Onyx	2	1879, 1896
Opera	7	1793, 1727, 1442, 1709, 1896, 2100, 1011
Oppo	1	1497
Optimus	9	1715, 1482, 1096, 1043, 1169, 1145, 1305, 1165, 1056
Optoma	3	1894, 1559, 1607
Optonica	2	1009, 1064
Orbit	3	1442, 1709, 1011
Orion	35	1923, 2005, 2000, 2001, 1442, 1664, 1727, 1754, 1772, 1954, 2032, 1429, 1504, 1658, 1678, 1683, 1496, 2108, 1709, 1717, 1513, 1644, 1759, 1028, 1023, 1511, 1022, 1121, 1382, 1122, 1011, 1078, 1127, 1216, 2007
Orline	4	1442, 1492, 1709, 1011
Ormond	6	1719, 1759, 1442, 1709, 1105, 1216
Orsowe	1	1678
Osaki	9	1492, 1490, 1504, 1442, 1658, 1654, 1709, 1011, 1078
Osio	3	1442, 1709, 1011
Oso	1	1492
Osume	4	1492, 1442, 1709, 1011
Otic	2	1831, 1643
Otto Versand	27	1823, 1567, 1448, 1677, 1688, 1429, 1662, 1476, 1678, 1513, 1495, 1644, 1490, 1646, 1690, 1485, 1647, 1496, 1468, 1442, 1709, 1682, 1069, 1683, 1011, 1077, 1078
Pacific	11	1442, 1709, 1760, 1784, 1727, 1759, 1664, 1802, 1078, 1127, 1216
Packard Bell	1	1249
Palladium	22	1649, 1442, 1717, 1655, 1727, 1760, 1688, 1473, 1476, 1490, 1982, 1690, 1709, 1646, 1485, 1823, 1567, 1682, 1660, 1011, 1078, 1127
Palsonic	8	1442, 1722, 1504, 1490, 1660, 1772, 1011, 1140
Panache	1	1843
Panama	6	1429, 1490, 1504, 1442, 1709, 1011
Panasonic	41	1715, 1853, 1933, 1941, 1861, 1495, 1794, 1647, 1682, 1796, 1462, 1648, 1678, 1442, 1709, 1473, 1686, 1819, 2170, 2264, 1466, 1096, 1469, 1049, 1169, 1554, 1010, 1564, 1385, 1305, 1165, 1123, 1019, 1011, 1070, 1044, 1076, 1047, 1210, 1279, 1650
Panavision	4	1442, 1655, 1709, 1011
Panda	7	1070, 1019, 1076, 1722, 1124, 1170, 1209
Papouw	2	1442, 1709
PARK	1	1603
Pathe Cinema	6	1473, 1644, 1510, 1646, 1688, 1649
Pathe Marconi	1	1468
Pausa	1	1429
Peng Sheng	1	1209
Penney	19	1018, 1444, 1484, 1094, 1058, 1049, 1073, 1333, 1061, 1021, 1063, 1068, 1558, 1380, 1385, 1053, 1012, 1019, 1347
Perdio	5	1644, 1473, 1442, 1709, 1011
Perfekt	3	1442, 1709, 1011
Petters	4	1442, 1565, 1011, 1298
Philco	21	1660, 1688, 1473, 1649, 1442, 1709, 1476, 1470, 1047, 1061, 1024, 1018, 1554, 1150, 1027, 1011, 1051, 1333, 1023, 1212, 1118

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Philex	1	1473
Philharmonic	1	1490
Philips	40	1709, 1442, 1938, 1824, 1891, 2015, 1695, 1429, 1647, 1812, 1811, 1690, 1654, 1842, 1822, 1698, 1764, 1913, 1633, 1309, 1047, 1126, 1239, 1549, 1337, 1632, 1001, 1019, 1011, 1333, 1044, , 616, 1077, 1078, 1098, 1506, 1369, 1042, 1866, 1856
Phocus	7	1790, 1793, 1727, 1868, 1902, 1127, 1652
Phoenix	7	1442, 1709, 1649, 1473, 1644, 1688, 1011
Phonola	4	1442, 1709, 1011, 1078
Pilot	4	1018, 1061, 1124, 1125
Pioneer	26	1468, 1473, 1509, 1677, 1442, 1709, 1662, 1649, 1647, 1788, 1734, 1813, 1482, 1720, 1853, 1469, 1035, 1377, 1056, 1011, 1722, 1198, 1260, 1279, 1077, 1169
Pionier	2	1649, 1313
Plantron	5	1442, 1709, 1504, 1429, 1011
Playsonic	9	1727, 1442, 1490, 1728, 1902, 1868, 1011, 1127, 1652
Plustron	2	1896, 2021
Polaroid	22	1890, 1831, 1881, 1565, 1111, 1639, 1391, 1604, 1596, 1502, 1371, 1583, 1393, 1407, 1460, 1232, 1040, 1392, 1446, 1249, 1298, 2002
Policom	4	1468, 1647, 1473, 1682
Polyvision	2	1488, 1544
Poppy	1	1429
Portland	6	1654, 1703, 1018, 1135, 1015, 1118
Powerpoint	5	1668, 1442, 1709, 1722, 1011
Prandoni-Prince	2	1678, 1647
Precision	1	1490
Premier	2	1504, 1209
President	1	1112
Prima	11	1429, 1504, 1658, 1772, 1521, 1476, 1376, 1285, 1594, 1132, 1507
PrimeView	1	1847
Princess	1	1140
Princeton	1	1257
Pringston	3	1759, 1728, 1216
Prinz	3	1683, 1646, 1647
Prism	2	1049, 1019
Profex	3	1429, 1473, 1647
Profi	1	1429
Profilo	1	1313
Profitronic	3	1442, 1709, 1011
Proline	16	1442, 1709, 1705, 1708, 1882, 1835, 1655, 1803, 1829, 1759, 1925, 1849, 1011, 1089, 1093, 1216
Proscan	11	1000, 1094, 1061, 1068, 1558, 1386, 1605, 1614, 1012, 1347, 1447
Prosco	1	1053
Prosonic	39	1835, 1912, 1728, 1772, 2021, 2663, 1879, 1699, 2197, 2100, 1899, 1907, 2001, 1802, 1896, 2106, 1889, 1916, 1754, 1803, 2139, 1490, 1885, 2090, 1649, 1654, 1653, 1719, 1727, 1694, 1442, 1709, 1873, 1843, 1793, 1011, 1105, 1127, 1249
Protech	14	1442, 1709, 1490, 1429, 1646, 1759, 1504, 1660, 1719, 1688, 1473, 1011, 1105, 1216
Proton	2	1484, 1333

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Protron	2	1494, 1252
Proview	3	1831, 1565, 1407
ProVision	10	1674, 1442, 1709, 1759, 1727, 1802, 1834, 1011, 1078, 1127
Proxima	1	1730
Pulsar	2	1018, 1020
Pvision	3	1751, 2001, 1201
Pye	8	1442, 1709, 1690, 1654, 1646, 1658, 1011, 1078
Pymi	1	1429
Qingdao	2	1070, 1019
Quadral	1	1492
Quadro	3	1762, 1795, 1132
Quasar	9	1750, 1429, 1096, 1049, 1064, 1169, 1385, 1305, 1019
Quelle	26	1442, 1823, 1567, 1468, 1688, 1429, 1069, 1504, 1759, 1513, 1928, 1449, 1719, 1709, 1647, 1490, 1677, 1682, 1683, 1646, 1690, 1485, 1011, 1077, 1105, 1216
Radialva	6	1473, 1442, 1709, 1509, 1468, 1492
Radiola	5	1442, 1709, 1490, 1011, 1078
Radiomarelli	4	1678, 1442, 1709, 1011
Radionette	1	1727
RadioShack	15	1442, 1709, 1484, 1011, 1043, 1333, 1012, 1094, 1036, 1061, 1018, 1363, 1064, 1068, 1090
Radiotone	15	1429, 1442, 1709, 1662, 1649, 1694, 1660, 1658, 1714, 1719, 1504, 1759, 1011, 1105, 1216
Rank Arena	1	1132
RCA	46	1705, 1448, 1144, 1000, 1094, 1049, 1009, 1613, 1610, 1596, 1459, 1386, 1385, 1153, 1380, 1586, 1558, 1552, 1548, 1546, 1068, 1035, 1118, 1067, 1065, 1082, 1018, 1001, 1333, 1616, 1019, 1089, 1079, 1012, 1156, 1132, 1633, 1228, 1247, 1347, 1401, 2429, 2434, 1447, 2403, 2002
Realistic	7	1043, 1036, 1333, 1061, 1018, 1363, 1064
Recco	1	1124
Recor	3	1442, 1709, 1011
Rectiligne	3	1442, 1709, 1011
Rediffusion	3	1647, 1686, 1928
Redstar	3	1442, 1709, 1011
Reflex	7	1442, 1709, 1759, 1719, 1011, 1105, 1216
Relisys	12	1889, 1815, 1803, 1843, 1848, 1890, 1831, 1750, 1751, 1752, 1775, 1298
Relon	1	1591
Remotec	5	1442, 1448, 1470, 1011, 1024
Reoc	4	1727, 1703, 1708, 1127
RevolutionHD	1	1570
Revox	5	1442, 1740, 1709, 1649, 1011
Rex	3	1655, 1473, 1504
RFT	7	1510, 1649, 1662, 1504, 1442, 1709, 1011
Ricavision	1	1408
Ricoh	2	1442, 1709
Rinex	1	1140

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
R-Line	4	1442, 1709, 1473, 1011
Roadstar	17	1759, 1728, 1429, 1660, 1809, 1920, 1795, 1442, 1709, 1727, 1719, 1492, 1504, 1011, 1105, 1127, 1216
Rolson	2	1924, 1602
Rover	1	1752
Rowa	10	1442, 1709, 1504, 1490, 1429, 1697, 1112, 1722, 1011, 1125
Royal Lux	2	1649, 1658
Rukopir	2	1709, 1442
Runco	5	1020, 1061, 1523, 1377, 1571
Saba	15	1705, 1468, 1692m, 1509, 1846, 1686, 1715, 1727, 1473, 1678, 1647, 1673, 1079, 1089, 1127
Sagem	3	1701, 1747, 1156
Saisho	7	1496, 1678, 1429, 1490, 1473, 1504, 1683
Saivod	12	1442, 1709, 1719, 1759, 1982, 1769, 1011, 1105, 1125, 1216, 1230, 1313
Sakai	1	1473
Sakura	1	1795
Salora	16	1646, 1473, 1647, 1678, 1686, 1487, 1773, 2197, 1688, 1666, 1784, 1706, 1736, 2239, 1070, 1313
Sambers	1	1678
Sampo	7	1038, 1061, 1009, 1043, 1333, 1024, 1169
Samsung	44	1931, 1504, 1746, 1721, 1476, 1473, 1442, 1875, 1490, 1649, 1444, 1735, 2094, 1782, 1429, 1743, 1709, 1787, 1156, 1697, 1676, 1484, 1018, 1443, 1073, 1333, 1061, 1161, 1173, 1547, 1530, 1172, 1169, 1363, 1043, 1053, 1058, 1011, 1070, 1078, 1157, 1170, 1343, 1458
Sandra	1	1490
Sansei	1	1135
Sansui	24	1442, 1709, 1653, 1935, 1727, 1717, 1786, 1834, 2001, 1023, 1024, 1064, 1511, 1090, 1121, 1382, 1114, 1011, 1272, 1124, 1127, 1132, 1238, 1313
Santon	1	1429
Sanyo	42	1487, 1776, 1510, 1759, 1873, 1762, 1769, 1843, 1757, 1483, 1525, 1858, 1859, 1860, 1473, 1442, 1462, 1709, 1730, 1649, 1490, 1449, 1695, 1429, 1683, 1764, 1047, 1043, 1095, 1527, 1062, 1380, 1044, 1051, 1053, 1070, 1076, 1058, 1216, 1176, 1392, 1667
Sanyuan	1	1009
Save	2	1442, 1709
SBR	4	1442, 1709, 1011, 1078
ScanSonic	1	1899
Sceptre	4	1542, 1551, 1561, 1467
Schaub Lorenz	15	1686, 1727, 1647, 1646, 1699, 2172, 1654, 1802, 1771, 1801, 2100, 1873, 2001, 1127, 1667
Schneider	26	1760, 1442, 1709, 1476, 1852, 1802, 2128, 1784, 1473, 1714, 1727, 1703, 1982, 1653, 1647, 1492, 1719, 1759, 1683, 1646, 1490, 1011, 1078, 1105, 1127, 1216
Schoentech	1	1759
Scimitsu	1	1018
Scotch	2	1484, 1333
Scotland	1	1473
Scott	7	1018, 1874, 1028, 1036, 1333, 1022, 1428
Sears	13	1484, 1094, 1047, 1043, 1058, 1333, 1024, 1363, 1022, 1068, 1090, 1053, 1012

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Seaway	2	1708, 1093
Seelver	4	1709, 1759, 1442, 1216
SEG	21	1703, 1762, 1708, 1688, 1492, 1490, 1668, 1429, 1646, 1473, 1504, 1442, 1769, 1709, 1809, 1719, 1759, 1011, 1105, 1216, 1230
SEI	11	1823, 1567, 1688, 1473, 1678, 1683, 1646, 1513, 1442, 1709, 1011
Sei-Sinudyne	9	1513, 1678, 1823, 1567, 1688, 1683, 1442, 1709, 1011
Seitech	2	1802, 1778
Seleco	5	1928, 1473, 1655, 1653, 1504
Semivox	1	1023
Semp	3	1053, 1058, 1560
Sencora	1	1429
Sentra	4	1439, 1492, 1429, 1646
Serie Dorada	3	1484, 1053, 1333
Serino	2	1701, 1448
Shanghai	1	1070
Shaofeng	1	1051
Sharp	25	1448, 1770, 1870, 1844, 2214, 1716, 1678, 1845, 1906, 2402, 1513, 1814, 1138, 1009, 1025, 1064, 1350, 1537, 1153, 1248, 1169, 1103, 1167, 1233, 1659
Shen Ying	1	1132
Shencai	1	1051
Sheng Chai	1	1009
Shenyang	1	1132
Sherwood	1	1563
Shinelco	2	1925, 1603
Shintoshi	3	1442, 1709, 1011
Shivaki	7	1442, 1709, 1664, 1654, 1484, 1011, 1333
Shogun	1	1018
Shorai	1	1513
Show	2	1429, 1660
Siam	1	1011
Siarem	3	1688, 1473, 1678
Siemens	8	1485, 1682, 1709, 1647, 1690, 1069, 1442, 1011
Siera	5	1442, 1709, 1697, 1011, 1078
Siesta	1	1649
Silva	5	1647, 1714, 1442, 1709, 1011
Silva Schneider	7	2166, 1714, 1442, 1739, 1982, 1011, 1313
Silvano	1	1697
Silver	3	1647, 1728, 1473
SilverCrest	4	1759, 1442, 1709, 1216
Simpson	1	1007
Simz	1	1907
Singer	8	1429, 1442, 1709, 1473, 1653, 1011, 1209, 1313
Sinotec	1	1140

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Sinudyne	15	1802, 1496, 1646, 1823, 1567, 1442, 1709, 1699, 1513, 1688, 1473, 1647, 1678, 1683, 1011
SKY	14	1850, 1829, 1849, 1847, 1898, 1718, 1848, 1750, 1754, 1484, 1851, 1803, 1442, 1011
Sky Brazil	1	1754
Skysonic	1	1132
Skyworth	5	1014, 1112, 1722, 1011, 1132
Sliding	3	1802, 1750, 1754
SLX	2	1719, 1105
Smaragd	1	1668
Soemtron	2	1750, 1815
Sogera	1	1644
Sogo	2	1803, 1699
Solavox	6	1647, 1473, 1686, 1442, 1709, 1011
Sole	1	1570
Sonawa	1	1492
Soniko	3	1442, 1709, 1011
Sonitron	4	1487, 1649, 1490, 1070
Sonix	2	1885, 1803
Sonneclair	3	1442, 1709, 1011
Sonoko	6	1442, 1709, 1429, 1504, 1490, 1011
Sonolor	7	1647, 1487, 1473, 1823, 1567, 1686, 1070
Sontec	6	1442, 1709, 1649, 1513, 1429, 1011
Sony	20	1823, 1909, 1930, 1937, 1893, 1567, 1877, 1741, 1616, 1219, 1534, 1574, 1090, 1388, 1408, 1001, 1169, 1152, 1178, 1651
Sound & Vision	4	1492, 1654, 1442, 1709
Soundesign	5	1484, 1036, 1333, 1022, 1007
Soundwave	8	1442, 1709, 1644, 1660, 1728, 1759, 1011, 1216
Sova	2	1494, 1252
Sowa	4	1053, 1019, 1058, 1333
Soyea	1	1140
Soyo	4	1879, 1566, 1578, 1591
Spectra	1	1429
Spectroniq	2	1565, 1407
Squareview	1	1024
Ssangyong	1	1429
SSS	2	1018, 1036
Stack 9	1	1408
Staksonic	1	1429
Standard	12	1442, 1709, 1879, 2090, 1759, 1492, 1429, 1490, 1644, 1654, 1011, 1216
Starion	1	1759
Starlite	9	1429, 1688, 1473, 1442, 1709, 1504, 1658, 1036, 1011
Stenway	1	1492
Stern	3	1655, 1473, 1504
Stevison	1	1982



<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Strato	7	1442, 1709, 1504, 1429, 1899, 2032, 1011
Strong	6	1759, 1442, 1709, 1769, 1762, 1230
Studio Experience	1	1477
Stylandia	1	1490
SunBrite	1	1365
Sungoo	2	1786, 2037
Sunic Line	2	1442, 1709
Sunkai	8	1513, 1492, 1496, 1701, 1442, 1709, 1668, 1750
Sunny	3	1442, 1852, 1011
Sunstar	7	1653, 1442, 1709, 1429, 1694, 1504, 1011
Sunstech	2	2001, 1964
Sunwood	4	1442, 1709, 1429, 1011
Superla	2	1678, 1490
Superscan	3	1009, 1181, 1027
Supersonic	3	1429, 1487, 1070
SuperTech	6	1492, 1429, 1442, 1709, 1011, 1078
Supra	4	1654, 1429, 1484, 1333
Supre-Macy	1	1100
Supreme	2	1616, 1001
Susumu	2	1492, 1509
Sutron	1	1429
SVA	6	1697, 1750, 1112, 1491, 1446, 1027
Svasa	2	1487 1070
Swedx	1	1847
Swisstec	15	1925, 1754, 1803, 1750, 1898, 1912, 2059, 1848, 1849, 1850, 1851, 1829, 1847, 2106, 1603
Sydney	1	1490
Sylvania	13	1804, 1465, 1047, 1061, 1024, 1554, 1150, 1464, , 145, 1300, 1027, 1249, 1383
Symphonic	5	1036, 1024, 1090, 1145, 1027
Synco	7	1001, 1333, 1009, 1038, 1616, 1591, 1135
Syntax	5	1406, 1488, 1004, 1463, 1421
Sysline	3	1442, 1709, 1011
Systemax	1	1408
Tacico	1	1333
Tagar Systems	1	1408
Talent	1	1333
Tandberg	5	1648, 1655, 1468, 1647, 1473
Tandy	5	1473, 1492, 1490, 1448, 1009
Targa	1	1156
Tashiko	4	1490, 1483, 1473, 1169
Tatung	19	1881, 1442, 1786, 1709, 1678, 1490, 1802, 1040, 1042, 1019, 1053, 1011, 1043, 1058, 1550, 1565, 1047, 1313, 1553
TAURAS	1	2197

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
TCL	6	1326, 1722, 1124, 1211, 2403, 2429
TCM	6	1740, 2001, 1793, 1727, 1790, 1127
Teac	25	2168, 1831, 1442, 1727, 1719, 1722, 1504, 1429, 1483, 1484, 1646, 1677, 1326, 1011, 1024, 1333, 1077, 1105, 1124, 1125, 1127, 1216, 1263, 1298, 1038
Tec	8	1490, 1429, 1688, 1442, 1709, 1647, 1473, 1011
Tech Line	8	1442, 1709, 1719, 1809, 1769, 1011, 1105, 1230
Techica	1	1492
Technema	1	1644
Technica	3	1982, 1759, 1216
Technics	7	1709, 1715, 1096, 1049, 1019, 1078, 1169
Technika	12	2426, 2197, 1912, 2106, 1873, 1843, 2032, 1916, 2059, 2168, 1643, 1667
TechniSat	8	1717, 1713, 1442, 1709, 1473, 2155, 2422, 1078
Technisson	5	1727, 1790, 1868, 1127, 1652
Techno	1	1843
Technol Ace	1	1022
Technosonic	11	1795, 1982, 2032, 1442, 1709, 1802, 1674, 1754, 1705, 1078, 1089
Technotrend	3	1834, 1878, 2155
Techview	1	1478
Techvision	3	1879, 1834, 2032
Techwood	9	1769, 1759, 1873, 1049, 1363, 1019, 1216, 1230, 1667
Teckton	1	1803
Tecnimagen	2	1709, 1078
Teco	8	1831, 1333, 1019, 1298, 1103, 1092, 1565, 1009
Tedelex	12	1490, 1699, 1442, 1429, 1487, 1697, 1709, 1660, 1879, 1070, 1209, 1681
Teiron	1	1429
Tek	1	1168
Teknika	10	1018, 1444, 1047, 1036, 1032, 1073, 1015, 1363, 1022, 1007
TELE System	3	1751, 1874, 1843
Teleavia	2	1468, 1509
Telecor	6	1473, 1492, 1490, 1442, 1709, 1011
Telefunken	26	1705, 1692, 1468, 1673, 1928, 1843, 1846, 1442, 1709, 1727, 1509, 1722, 1795, 1156, 1363, 1011, 1079, 1089, 1125, 1127, 1132, 1168, 1170, 1210, 1313, 1681
Telefusion	3	1442, 1709, 1011
Telegazi	6	1442, 1473, 1492, 1504, 1709, 1011
Telemagic	1	1730
Telemeister	4	1644, 1442, 1709, 1011
Telesonic	3	1442, 1709, 1011
Telestar	11	1442, 1709, 1694, 1658, 1713, 2090, 2318, 1912, 1429, 1011, 1078
Teletech	8	1442, 1709, 1719, 1429, 1759, 1011, 1105, 1216
Teleton	3	1490, 1473, 1646
Televideon	3	1688, 1473, 1644
Television	3	1442, 1709, 1011
Temco	1	1513
Tempest	1	1429

Brands	Count	Code-sets
Tennessee	3	1442, 1709, 1011
Tensai	15	1449, 1492, 1442, 1709, 1490, 1513, 1728, 1473, 1759, 1644, 1429, 1654, 1653, 1011, 1216
Tenson	2	1644, 1429
Tesla	13	1442, 1709, 1727, 1759, 1701, 1760, 1476, 1868, 1011, 1078, 1127, 1216, 1652
Tevion	31	1786, 2100, 1902, 2023, 1815, 1831, 1899, 2032, 1714, 1719, 1760, 1727, 1759, 1790, 1890, , 2090, 1476, 1442, 1709, 1740, 1750, 2241, 1843, 1011, 1078, 1105, 1127, 1216, 1313, 1298, 1667
Texet	4	1490, 1654, 1429, 1492
Thes	1	1912
Thomas	1	1090
Thomson	16	1705, 1692, 1509, 1468, 1644, 1646, 1688, 1846, 2128, 1442, 1709, 1011, 1079, 1089, 1132, 1000
Thorn	17	1462, 1468, 1493, 1439, 1689, 1442, 1709, 1449, 1677, 1654, 1674, 1647, 1823, 1567, 1682, 1011, 1077
Thorn-Ferguson	3	1449, 1439, 1674
Tiane	1	1009
Time	1	1878
Tiny	1	1772
TMK	3	1484, 1333, 1363
TML	1	1042
TNCi	1	1020
Tobishi	1	1492
Tobo	1	1112
Tokai	12	1442, 1709, 1719, 1473, 1490, 1654, 1429, 1759, 1688, 1011, 1105, 1216
Tokaido	2	1759, 1216
Tokyo	1	1439
Tomashi	1	1492
Topline	4	1759, 1719, 1105, 1216
Toshiba	53	1827, 1156, 1767, 1484, 1759, 1069, 1485, 1715, 1429, 1722, 1442, 1935, 1841, 1888, 1490, 1468, 1676, 1439, 1790, 1727, 1832, 1444, 2203, 2311, 1689, 1159, 1043, 1058, 1223, 1501, 1073, 1532, 1340, 1550, 1169, 1341, 1560, 1179, 1377, 1267, 1114, 1006, 1154, 1597, 1408, 1053, 1051, 1009, 1076, 1170, 1216, 1294, 1301
Tosumi	2	1982, 1896
Touch	1	1408
Towada	3	1646, 1490, 1688
Toyoda	1	1429
Trakton	1	1504
TRANS-continentals	11	1719, 1759, 1750, 1709, 1442, 1490, 2023, 1011, 1078, 1105, 1216
Transonic	8	1442, 1697, 1429, 1011, 1077, 1722, 1125, 1263
Triad	5	1442, 1709, 1492, 1429, 1078
Trident	2	1678, 1490
Trio	1	1831
Tristar	2	1504, 1492
Triumph	6	1678, 1928, 1709, 1442, 1011, 1078
TruTech	2	1425, 1599

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
TVE	1	2239
TVS	1	1023
TVTEXT 95	2	1709, 1078
TWF	1	1917
Uher	8	1442, 1709, 1644, 1654, 1660, 1649, 1666, 1011
Ultravox	6	1654, 1688, 1473, 1442, 1709, 1011
UMC	9	1829, 1847, 1898, 1850, 1912, 2059, 2106, 2168, 2426
Unic Line	4	1442, 1709, 1646, 1011
United	16	2200, 1868, 1907, 1896, 1442, 1728, 1709, 1759, 1697, 1982, 1727, 1011, 1078, 1127, 1216, 1652
Universal	5	1442, 1709, 1063, 1011, 1127
Universum	41	1483,1156, 2174, 1468, 1706, 1690, 1429, 1784, 1823, 1567, 1683, 1646, 1490, 1688, 1473, 1504, 1709, 1655, 1660, 1513, 1647, 1677, 1669, 1649, 1069, 1809, 1762, 1449, 1682, 1769, 1928, 1719, 1666, 1759, 1442, 1740, 1011, 1077, 1105, 1216, 1230
Univox	4	1442, 1709, 1473, 1011
US Logic	1	1040
Utax	1	1473
V2max	1	1750
V7 Videoseven	9	1872, 1156, 1909, 1823, 2254, 1484, 1754, 1803, 1778
VANGUARD	2	1442, 1709
Vector Research	1	1061
Venturer	4	1882, 1835, 1916, 1592
Venus	1	1795
Vestel	15	1759, 1769, 1843, 1873, 1442, 1719, 1688, 1473, 1490, 1709, 1011, 1105, 1216, 1230, 1667
Vexa	4	1429, 1442, 1709, 1011
Victor	4	1092, 1169, 1103, 1096
Videocon	6	2331, 1676, 1306, 1076, 1011, 2436
Videologic	1	1492
Videologique	2	1492, 1490
Videomac	1	1429
VideoSystem	3	1442, 1709, 1011
Videotechnic	3	1644, 1490, 1654
Videoton	1	1473
Vidikron	4	1730, 1047, 1377, 1571
Vidtech	3	1484, 1333, 1018
Viewpia	1	1751
Viewsonic	17	1846, 1829, 2111, 1038, 1206, 1180, 1181, 1184, 1187, 1185, 1190, 1441, 1188, 1361, 1600, 1408, 1640
Viking	1	1100
Viore	4	1435, 1590, 1603, 1629
Vision	6	1442, 1709, 1644, 1490, 1591, 1011
Vistar	1	1647
Vistron	2	1801, 1263
Visual Innovations	1	2106

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Vivax	4	1793, 1795, 1852, 1879
Vivid	1	1793
Vizio	5	1433, 1181, 1184, 1042, 1758
Voodoo	1	1408
Vortec	3	1442, 1709, 1011
Voxson	8	1442, 1709, 1660, 1473, 1484, 2197, 1011, 1333,
VU	1	1602
Vue	1	1238
Walker	3	1873, 1762, 1667
Waltham	13	1473, 1664, 1442, 1709, 1719, 1468, 1759, 1490, 1660, 1509, 1011, 1105, 1216
Wards	16	1018, 1444, 1482, 1484, 1047, 1333, 1061, 1021, 1063, 1363, 1064, 1022, 1550, 1001, 1053, 1198
Warumaia	1	1104
Watson	18	1759, 1786, 1644, 1709, 1442, 1809, 1803, 1473, 1429, 1719, 1492, 1694, 1476, 1727, 1011, 1105, 1127, 1216
Watt Radio	5	1683, 1646, 1688, 1473, 1662
Waycon	2	1058, 1053
Wega	3	1442, 1709, 1011
Wegavox	3	1429, 1442, 1709
Welltech	4	1868, 1727, 1127, 1652
Weltblick	4	1442, 1709, 1644, 1490
Weltstar	2	1759, 1216
Westinghouse	11	1515, 1135, 1184, 1544, 1555, 1178, 1567, 1616, 1712, 1038, 1591
Weston	2	1442, 1709
Wharfedale	17	1442, 1476, 1784, 1709, 1802, 1873, 1849, 1988, 1643, 1011, 1078, 1112, 1209, 1210, 1313, 1667, 1681
White Westinghouse	8	1644, 1442, 1709, 1703, 1023, 1118, 1106, 1011
Wilson	2	1709, 1078
Windsor	4	1719, 1759, 1105, 1216
Windy Sam	2	1709, 1078
Wintel	2	1874, 1127
World-of-Vision	9	1754, 1885, 1750, 1790, 1815, 1752, 1847, 1778, 2001
Woxter	1	1834
Wyse	1	1183
XDome	1	1676
Xenius	3	1708, 1718, 1093
Xiahua	2	1722, 1140
XLogic	2	1722, 1112
Xomax	1	1896
Xoro	8	2148, 2145, 1802, 1772, 1778, 2067, 1900, 2146
Xrypton	3	1442, 1709, 1011
Yakumo	1	1849
Yamaha	9	1715, 1840, 1061, 1018, 1206, 1533, 1536, 1169, 1319

<b>Brands</b>	<b>Count</b>	<b>Code-sets</b>
Yamishi	5	1492, 1442, 1709, 1490, 1011
Yapshe	1	1096
Yokan	3	1442, 1709, 1011
Yoko	8	1490, 1442, 1709, 1492, 1504, 1429, 1649, 1011
Yorx	1	1492
Ytawai	1	1834
YU-MA-TU	2	1442, 1011
Yüsmart	1	1849
Zanussi	1	1490
Zenith	21	1703, 1616, 1501, 1094, 1020, 1023, 1333, 1061, 1522, 1051, 1015, 1118, 1054, 1090, 1121, 1382, 1207, 1001, 1011, 1012, 1405
Zepto	1	1843
Ziggo	2	1905, 1818
Zonda	1	1722
ZT Group	1	1408