

Programming Remote Control

Your remote control can handle several devices. However, first you have to set up your remote control for your equipment. You can do it in one of the following ways:

Brand Setup

First, find the manufacturer of your equipment on the Brand Codes list. If the manufacturer's brand is not listed, go to **Automatic Search** below. To set up your remote control follow these steps:

- Turn the device on.
- Press **TV** / **AUD** / **DVD** / **AUX** / **STB** depending on what mode you want to handle and then hold ^{3Sec} until the device key blinks twice.
- Enter one of the codes from the list. If the code was correct the mode key blinks twice. If not, the key emits one long blink. Then, you will have to repeat steps 2 and 3 until entering the correct code.
- Press ^{3Sec}. If the device has turned off, you have chosen the right code. If none of the codes work, try **Automatic Search**.

Automatic Search

Automatic Search should only be undertaken if none of the brand codes works or your brand name is not listed. Use the **Automatic Search** option.

- Switch on your device. Then press appropriate mode key, for example **TV** if you want to set up a TV.
- Press and hold ^{3Sec} until the mode key blinks twice.
- Press **9** **9** **1**. The mode key blinks twice.
- Aim the remote at the device and press ^{3Sec}.
- Press ^{3Sec} repeatedly until the device is switched off.
- Press ^{3Sec} to turn the TV on.
- Next, press ^{3Sec} to store the code for your device. The mode key blinks twice. Your remote control is now programmed to operate your TV set.
- To search codes for other devices repeat steps 1 through 7, but substitute the **TV** key with the appropriate one for the mode you are searching for.

Finding Your Code

If you want to know what code operates your device, you can obtain it with the **Device Code** option. To find out the code, follow these instructions:

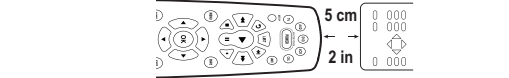
- Switch on your device. Then press appropriate mode key, for example **TV** if you want to set up a TV.
- Press and hold ^{3Sec} until the mode key blinks twice.
- Press **9** **9** **0** **0**. The mode key blinks twice.
- For the first digit of your code, press **1** and count the number of times the key blinks (e.g. 2 blinks = 2). If the light does not blink, the digit is 0. For the second digit press **2** and count the number of blinks. Do the same for the remaining digits.

- To check for other device codes, repeat the above steps, but substitute the **TV** key with the appropriate one for the device you are checking.

Using Learning

Your remote control includes a learning feature. It means you can transfer some unique functions from the remote control of other device to this remote control.

- Press ^{3Sec} until the last selected mode key blinks twice. Then press **9** **7** **5**.
- Press the mode key. For example to transfer a function from DVD remote control press **DVD**.
- Press the key on which the function will be stored.
- Place your remote control and the device remote control (e.g. your DVD remote control) head-to-head, about 5 centimeters / 2 inches apart.



- On the device remote, press and hold the key to be learned. The target remote control will blink rapidly and turn off. Keep holding the key on the device remote control until the device key on the target remote blinks twice.
- If the learning failed, the device key emits one long blink. You will have to repeat step 5.

Deleting a Single Learning Key

Once you used a particular key to store a new function on it, you may restore the original function of the key.

- Press ^{3Sec} until the last selected mode key blinks twice. Then press **9** **7** **6**.
- Press the mode key (for example **DVD**). The mode key blinks twice.
- Press the key containing the learned function. The mode key blinks twice.
- Press and hold ^{3Sec} to exit programming.

Deleting All Learned Keys

- Press ^{3Sec} until the last selected mode key blinks twice. Then press **9** **7** **6**.
- Press the mode key twice (for example **DVD**). All the learned keys for this mode will be cleared. The mode key blinks twice.
- Press and hold ^{3Sec} to exit programming.

Using the Master Power Key

Your remote has a feature that enables you to sequentially turn up to five devices on and off with a single key press. This functionality works only if the remote control is in STB mode.

- Press ^{3Sec} until the last selected mode key blinks twice.
- Press **9** **9** **5**. The last selected mode key will blink twice.
- Press ^{3Sec}.
- Press the mode key for the device you would like to turn on first and press ^{3Sec}. Then press the mode key for the second device to turn on and once again ^{3Sec}. Repeat the steps until adding all the devices you want to be operated.
- To save settings press ^{3Sec}.
- Next press ^{3Sec} to exit programming.

Volume Lock

The remote control enables you to control volume level of different devices without selecting the mode key for each device. For example: if you are watching a film on your DVD player, you can adjust the volume for your TV set, without pressing the TV mode key on your remote control.

To set the Volume Lock for your TV:

- Press and hold ^{3Sec} until the last selected mode key blinks twice.
- Press **9** **9** **3**. The last selected mode key will blink twice.
- Then press **TV** and the device key blinks twice.

Deleting „Volume Lock“ for a particular device (for example for DVD)

- Press **DVD** once.
- Press and hold down the ^{3Sec} key until the mode key blinks twice.
- Press **9** **9** **3**. The mode key blinks twice.
- Then press the ^{3Sec} key and the mode key will blink four times.

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

Deleting „Volume Lock“ for all devices

- Press and hold ^{3Sec} until the last selected mode key blinks twice.
- Press **9** **9** **3**.
- Press the ^{3Sec} key and the the last selected mode key will blink four times.

Clearing Custom Programming

You may clear the custom programming and revert to the default settings of the remote control. To do that, follow these steps:

- Press ^{3Sec} until the last selected mode key blinks twice.
- Enter **9** **8** **0**. The last selected mode key blinks twice, pauses, and blinks twice again.

This procedure does not affect your setup codes. They remain in memory of the remote control.

Troubleshooting

Problem	Solution
Device key does not blink when you press a key.	Replace the batteries with two (2) new AA batteries.
Device key blinks when you press a key, but home entertainment device does not respond.	Make sure you are aiming the remote control at your home entertainment device and that you are within 4.5 meters / 15 feet of the device you are trying to control.
The remote control does not control home entertainment devices or commands are not performing properly.	Try all listed codes for the device brand being set up. Make sure all devices can be operated with an infrared remote control.
TV/VCR Combo does not respond properly.	Use the VCR codes for your brand. Some combo units may require both a TV code and a VCR code for full operation.

PLAY and STOP keys do not work on a Motorola DCT-2000 cable converter.

Tried Search Method and still could not find a working code.

- a. Press and hold ^{3Sec} until device key blinks twice.
- b. Enter **9** **9** **2**.
- c. Press and release the device key to be cleared twice.

Remote control does not turn on Sony or Sharp TV/VCR Combo.

For power on, these products require programming TV codes on the remote control. For Sony, use TV code 0000 and VCR code 0032. For Sharp, use TV code 0093 and VCR code 0048.

Brand Codes

The following codes are used when configuring the remote control. First find the manufacturer of your equipment and then try the codes one by one.

Audio Amplifiers

Pioneer	1023, 0014, 0080, 0150, 0244, 0531, 0630, 1384	Pioneer	1877, 0877, 0144, 0533
Adcom	0577, 1100	Pulsar	0000
Bose	0674	Quasar	0000
Durabrand	1561	RadioShack	0883
Elan	0647	REGA	1256
GE	0078	RCA	0279, 0273
Harman/ Kardon	0892	Runco	0000
JVC	0331	Samsung	1376, 1877, 0144
Left Coast	0892	Sasktel	1737
Lenoxx	1561	Scientific Atlanta	1877, 0877, 0477, 0008, 0017
Luxman	0165	Sansui	0189
Marantz	0892, 0321	Sejin	1602
McIntosh	0251	Sony	1006
Nakamichi	0321	Starcom	0003
NEC	0264	Supercable	0276
Optimus	0395, 0823	Supermax	0883
Parasound	0246	Thomson	1256
Philips	0892	Thomson	1044, 1075, 1099, 1144, 1158, 1304, 1443, 1730
Pioneer	0823	Torx	0003
Polk Audio	0892	Toshiba	0000
RCA	0823	Tristar	0883
Realistic	0395	V2	0883
Sansui	0321	Viewmaster	0883
Shure	0264	Vision	0883
Sony	0689, 0815, 1126	Vortex View	0883
Soundesign	0670	Zenith	0000, 0525, 0899
Soundesign Stereo-phonics	1023		
Soundfire	1313		
Victor	0331		
Wards	0078, 0211		
Yamaha	0354, 0133		
Technics	1308, 1518, 0309		
Thorens	1189		
Toshiba	1788		
Venturer	1390		
Wards	0189, 0014, 0080		
XM	1406, 1414		
Yamaha	0176, 0186, 1176, 1276, 1331, 1375		
Zenith	0857, 1293		

Audio Receivers

ADC	0531	Americast	0899
Aiwa	1405, 0189, 0121, 0405, 1243, 1388, 1641	Amino	1822
Akai	1512	Digeo	1187
Alco	1390	General Instrument	0476, 0810
Amphion Media Works	1563, 1615	Jerrold	0476, 0810
AMW	1563, 1615	Motorola	1376, 0810, 1187, 1106, 1540, 0476
Anam	1609, 1074	Myrio	1822
Apex Digital	1774	Pace	1376, 1877, 0237
Arcam	1120	Panasonic	1376, 1877
Audiotronics	1189	Pioneer	1877, 0877
Audiovox	1390, 1627	RCA	1256
B & K	0701, 0820, 0840	Sasktel	1737
BK	0702	Samsung	1376, 1877
Bose	1229, 1629, 1841, 1933	Scientific Atlanta	1877, 0877
Cambridge Soundworks	1370	Sony	1006
Capetronic	0531	Supercable	0276
Carver	1189, 0189	Thomson	1256
Classic	1352	Zenith	0899
Coby	1389		
Curtis Mathes0080	0503, 0539, 0646, 0675, 0821, 1268, 1506		
Daewoo	1250		
Delphi	1414		
Denon	1360, 0004, 1142		
Fisher	1801		
Gateway	1517		
Go Video	1532		
Harman/ Kardon	0110, 0189, 0891, 1304, 1306		
Hitachi	1801		
Integra	0135, 1298, 1320		
JBL	0110, 1306		
JVC	1374, 1495, 1811, 1871		
Kenwood	1313, 1570, 1569, 0186		
KLH	1390, 1412, 1428		
Koss	1366, 1497		
Lasonic	1798		
LG	1293		
Linn	0189		
Liquid Video	1497		
Magnavox	1189, 1269, 0189, 0391, 0531, 1514		
Marantz	1189, 1269, 0189, 1289		
Mitsubishi	1393		
Norcent	1389		
Nova	1389		
Onkyo	0135, 0842, 1298, 1320, 1531		
Optimus	1023, 0080, 0186, 0531, 0670, 1074		
Ortron	1366, 1497		
Panasonic	0123, 0000, 0670, 1074		
Philips	1189, 1269, 0189, 0391, 1120, 1266		

Daewoo	0784, 0005, 0833, 0869, 1169, 1172, 1234, 1242, 1441, 1443
Denon	0490, 0634
Desay	1407, 1455
Diamond Vision	1316, 1609, 1610
Disney	0675, 1270
Dual	1068, 1085
Durabrand	1127
DVD2000	0521
EMV	0591, 0675, 0821, 1268
Enterprise	0591
ESA	0821, 1268, 1443
Fisher	0670, 1919
Funai	0675, 1268, 1334

Gateway	1073, 1077, 1158
GE	0522, 0815, 0717
Go Video	0744, 0715, 0741, 0783, 0833, 0869, 1044, 1075, 1099, 1144, 1158, 1304, 1443, 1730
Go Vision	1071, 1072
GoldStar	0741
GPX	0699, 0769
Greenhill	0717
Harman/ Kardon	0582, 0702
Hitachi	0573, 0664, 1247, 1919
Hitek	0672
ilo	1348, 1472
Initial	0717, 1472
Innovative Technology	1542
Insignia	1268
Integra	0627
Jaton	1078
JBL	0189, 0789
Jensen	1016
JSI	1423
JVC	0558, 0623, 0867, 1164, 1271, 1602, 1863
JWin	1049, 1051
Kawasaki	0790
Kenwood	0490, 0534, 0682, 0737

KLH	0717, 0790, 1020, 1149, 1261
Konka	0711, 0719, 0720, 0721
Koss	0651, 0896, 1423
Kreisen	1421
Landel	0826
Lasonic	0498, 1173
Lennox	1127
LG	0591, 0741, 0801, 0869, 1526
LiteOn	1058, 1158, 1416, 1440
Loewe	0511
Magnavox	0503, 0539, 0646, 0675, 0821, 1268, 1506
Malata	0782, 1159
Marantz	0539
McIntosh	1273
Memorex	0695, 0831, 1270
Microsoft	0522, 1708
Mintek	0839, 0717, 1472
Mitsubishi	1521, 0521
Momitsu	1082
NAD	0741
Nakamichi	1222
NEC	0785
Nesa	0717, 1603
NeuNeo	1454
NextBase	1086
NexTech	1402
Norcent	1003, 0872, 1107, 1265, 1457
Onkyo	0503, 0627, 0792
Opko	1224, 1525
OptoMedia	0896
Oritron	0651
Panasonic	0490, 0632, 0703, 1362, 1462, 1490, 1762

Philips	0503, 0539, 0646, 0675, 0854, 1260, 1267, 1354
Citizen	1277
Coby	0778, 0852, 1086, 1107, 1165, 1177, 1351
Craig	0539
Curtis Mathes	1087
CyberHome	0816, 0874, 1023, 1024, 1117, 1129, 1502, 1537
Polk Audio	0816, 0874, 1023, 1024, 1117, 1129, 1502, 1537
Portland	0770
Presidian	0675, 1072
Prima	1016
Primare	1467
Princeton	0674

Proscan	0522
ProVision	0778
Qwestar	0651
RCA	0522, 0571, 0717, 0790, 0822, 1022, 1132, 1193
Rio	0869
RIETech	1360
Rotel	0623, 1178
Rowa	0823
Sampo	0698, 0752, 1501
Samsung	0490, 0573, 0820, 0899, 1044, 1075
Sansui	0695
Sanyo	0670, 0695, 0873, 1919
Sensory Science	1158
Sharp	0630, 0675, 0752, 1256
Sharper Image	1117
Sherwood	0633, 0770, 1043, 1077, 1889

Toshiba	0154, 1256, 0156, 1265, 0060, 1945, 1935, 1704, 1656, 1635, 1356, 1343, 1325, 1306, 1156, 0845, 0832, 0650, 0149, 0036
Tosonic	0185
Totevision	0039
Trical	0157
TVS	0463
Ultra	0391, 1323
Universal	0027
Universum	1337
US Logic	1286, 1303
Vector Research	0030
Victor	0053
Video Concepts	0098
Vidikron	0054, 0242, 1398
Vidtech	0178, 0019, 0036
Viewsonic	0797, 0857, 0864, 0885, 1330, 1342, 1578, 1627, 1755
Viking	0046, 0312
Viore	1207
Visart	1336
Vizio	0864, 0885, 1499, 1756, 1758

Wards	0054, 0178, 0030, 1156, 0866, 0202, 0179, 0174, 0165, 0111, 0096, 0080, 0056, 0029, 0028, 0027, 0021, 0020, 0019, 0016
Waycon	0156
Westing-house	0885, 0889, 0890, 1282, 1571
White Westing-house	0463, 0623
Wyse	1365
Yamaha	0030, 0019, 0769, 0797, 0833, 0839
Zenith	0017, 0463, 1265, 0178, 0092, 0016

Zonda	0003
Hewlett Packard	1494
HP	1494
LG	1265
Magnavox	1525
Mitsubishi	1250
Optoma	0887
Panasonic	1291
RCA	1447
Samsung	0812, 1060, 1312
SVA	0872
Toshiba	1265, 1306
Vizio	1499

TVs (DLP)

Hewlett Packard	1494
HP	1494
LG	1265
Magnavox	1525
Mitsubishi	1250
Optoma	0887
Panasonic	1291
RCA	1447
Samsung	0812, 1060, 1312
SVA	0872
Toshiba	1265, 1306
Vizio	1499

TVs (HDTV)

Advent	0842
Hitachi	1960
Marantz	0854
Mitsubishi	0150
Panasonic	0250, 0650, 1291
Pioneer	0679
Princeton	0717
RCA	1447
Samsung	0812, 0702
Sharp	0688, 0689
Toshiba	1256

TVs (LCD)

Accurian	1803
Action	0873
Akai	1935
AOC	1365
Apex Digital	0890, 1217
Astar	1548
Audiovox	0180, 0710, 0802, 0846, 0875, 1284, 1937, 1951, 1952
BenQ	1315
Byd:sign	1309, 1311
Cadia	1283
CyberHome	0794
Dell	1080, 1178, 1264
Emprex	1422, 1546
Envision	0813, 1365
FlexVision	0710
Funai	0171
Go Video	0886
Hannspree	1348, 1351
Hewlett Packard	1088

HP	1088
Hyundai	0849, 1219, 1294
iLo	1286, 1603, 1990
Initial	1603, 1990
Insignia	1204, 1517, 2002
Jensen	1299
Kost	1262
LG	0856, 1178, 1993
Magnavox	1454, 0802, 1198
Marantz	0855
Maxent	0762, 1211
Mintek	1603, 1990
Mitsubishi	1250
NetTV	0762
Norcent	1365, 1589, 1591
Norwood Micro	1286, 1296
Olevia	1144, 1240, 1331, 1610
Panasonic	0650, 1941
Petters	1523
Philips	1454, 1483
Polaroid	1262, 1276, 1316, 1341, 1498, 1523
Protron	1320, 1323
Proview	1401
RCA	0047, 1958
Sampo	0762
Samsung	0812, 0766, 0814, 1395, 1575
Sansui	1409
Sanyo	1142
Sceptre	0878, 1217, 1360, 1599
Sharp	0093, 0818, 1602
Sherwood	1399
Signet	1262
Sony	0810
Sova	1320
Soyo	1520
Superscan	0864
SVA	0587, 0870, 0871
Sylvania	0171, 1271
Symphonic	0171
Syntax	1144, 1240, 1331
Tatung	1286
Techview	0847
Toshiba	0845, 1343, 1635, 1656
Ultra	1323
US Logic	1286
Vidikron	1398
Viewsonic	0857, 0864, 0885, 1330, 1578, 1627
Visart	1336
Vizio	0864, 0885, 1756
Westing-house	0885, 0889, 0890, 1282, 1577
Wyse	1365
Zenith	1265

Sansui	1409
Sanyo	1142
Sceptre	0878, 1217, 1360, 1599
Sharp	0093, 0818, 1602
Sherwood	1399
Signet	1262
Sony	0810
Sova	1320
Soyo	1520
Superscan	0864
SVA	0587, 0870, 0871
Sylvania	0171, 1271
Symphonic	0171
Syntax	1144, 1240, 1331
Tatung	1286
Techview	0847
Toshiba	0845, 1343, 1635, 1656
Ultra	1323
US Logic	1286
Vidikron	1398
Viewsonic	0857, 0864, 0885, 1330, 1578, 1627
Visart	1336
Vizio	0864, 0885, 1756
Westing-house	0885, 0889, 0890, 1282, 1577
Wyse	1365
Zenith	1265

Sansui	1409
Sanyo	1142
Sceptre	0878, 1217, 1360, 1599
Sharp	0093, 0818, 1602
Sherwood	1399
Signet	1262
Sony	0810
Sova	1320
Soyo	1520
Superscan	0864
SVA	0587, 0870, 0871
Sylvania	0171, 1271
Symphonic	0171
Syntax	1144, 1240, 1331
Tatung	1286
Techview	0847
Toshiba	0845, 1343, 1635, 1656
Ultra	1323
US Logic	1286
Vidikron	1398
Viewsonic	0857, 0864, 0885, 1330, 1578, 1627
Visart	1336
Vizio	0864, 0885, 1756
Westing-house	0885, 0889, 0890, 1282, 1577
Wyse	1365
Zenith	1265

TV/DVD Combos

Hewlett Packard	1494
HP	1494
LG	1265
Magnavox	1525
Mitsubishi	1250
Optoma	0887
Panasonic	1291
RCA	1447
Samsung	0812, 1060, 1312
SVA	0872
Toshiba	1265, 1306
Vizio	1499

TVs (HDTV)

Advent	0842
Hitachi	1960
Marantz	0854
Mitsubishi	0150
Panasonic	0250, 0650, 1291
Pioneer	0679
Princeton	0717
RCA	1447
Samsung	0812, 0702
Sharp	0688, 0689
Toshiba	1256

TVs (LCD)

Accurian	1803
Action	0873
Akai	1935
AOC	1365
Apex Digital	0890, 1217
Astar	1548
Audiovox	0180, 0710, 0802, 0846, 0875, 1284, 1937, 1951, 1952
BenQ	1315
Byd:sign	1309, 1311
Cadia	1283
CyberHome	0794
Dell	1080, 1178, 1264
Emprex	1422, 1546
Envision	0813, 1365
FlexVision	0710
Funai	0171
Go Video	0886
Hannspree	1348, 1351
Hewlett Packard	1088

HP	1088
Hyundai	0849, 1219, 1294
iLo	1286, 1603, 1990
Initial	1603, 1990
Insignia	1204, 1517, 2002
Jensen	1299
Kost	1262
LG	0856, 1178, 1993
Magnavox	1454, 0802, 1198
Marantz	0855
Maxent	0762, 1211
Mintek	1603, 1990
Mitsubishi	1250
NetTV	0762
Norcent	1365, 1589, 1591
Norwood Micro	1286, 1296
Olevia	1144, 1240, 1331, 1610
Panasonic	0650, 1941
Petters	1523
Philips	1454, 1483
Polaroid	1262, 1276, 1316, 1341, 1498, 1523
Protron	1320, 1323
Proview	1401
RCA	0047, 1958
Sampo	0762
Samsung	0812, 0766, 0814, 1395, 1575
Sansui	1409
Sanyo	1142
Sceptre	0878, 1217, 1360, 1599
Sharp	0093, 0818, 1602
Sherwood	1399
Signet	1262
Sony	0810
Sova	1320
Soyo	1520
Superscan	0864
SVA	0587, 0870, 0871
Sylvania	0171, 1271
Symphonic	0171
Syntax	1144, 1240, 1331
Tatung	1286
Techview	0847
Toshiba	0845, 1343, 1635, 1656
Ultra	1323
US Logic	1286
Vidikron	1398
Viewsonic	0857, 0864, 0885, 1330, 1578, 1627
Visart	1336
Vizio	0864, 0885, 1756
Westing-house	0885, 0889, 0890, 1282, 1577
Wyse	1365
Zenith	1265

Sansui	1409
Sanyo	1142
Sceptre	0878, 1217, 1360, 1599
Sharp	0093, 0818, 1602
Sherwood	1399
Signet	1262
Sony	0810
Sova	1320
Soyo	1520
Superscan	0864
SVA	0587, 0870, 0871
Sylvania	0171, 1271
Symphonic	0171
Syntax	1144, 1240, 1331
Tatung	1286
Techview	0847
Toshiba	0845, 1343, 1635, 1656
Ultra	1323
US Logic	1286
Vidikron	1398
Viewsonic	0857, 0864, 0885, 1330, 1578, 1627
Visart	1336
Vizio	0864, 0885, 1756
Westing-house	0885, 0889, 0890, 1282, 1577
Wyse	1365
Zenith	1265

Cinego	1399
Diamond Vision	1610
Emerson	0675, 1268
ESA	1268
Funai	1268
Go Vision	1071
Hitachi	1247
iLo	1472
Initial	1472
Insignia	1268
Jensen	1016
KLH	1261
Konka	0719, 0720
LG	1526
Magnavox	1268
Mintek	1472
Panasonic	1490
Philips	0854, 1260
Polaroid	1480
Prima	1016
RCA	1022, 1193
Samsung	0899
Sansui	0695
Sova	1122
Sylvania	0675, 1268
Toshiba	0695

TV/VCR Combos

America Action	0180
Audiovox	0180
Emerson	0236

America Action	0278
Audiovox	0278
Broksonic	0002, 0479, 1479
Citizen	1278
Colt	0072
Curtis Mathes	1035
Daewoo	0637, 1278
Emerson	0002, 0294, 0479, 0593, 1278, 1479
Funai	0000
GE	0240, 0807, 1035, 1060
GoldStar	1237
Harley Davidson	0000
Hitachi	0000
LG	1037
Lloyd's	0000
Magnasonic	0593, 1278
Magnavox	0000, 0593, 1781
Magnin	0240
Memorex	0162, 0454, 1037, 1162, 1237, 1262

MGA	0240
Mitsubishi	0807
Optimus	0162, 0454, 0593, 1162, 1262
Orion	0002, 0479, 1479
Panasonic	0162, 1035, 1162, 1262
Penney	0240, 1035, 1237
Quasar	0162, 1035, 1162
RadioShack	0000, 1037
RCA	0240, 0807, 1035, 1060
Samsung	1014
Sansui	0000, 0479, 1479
Sanyo	0240
Sears	0000, 1237
Sony	0000, 1232
Sylvania	1781
Symphonic	0000, 0593
Thomas	0000
Toshiba	0845, 1145
White Westing-house	0637
iLo	1990
Initial	1990