

# Kamai Quick Reference Guide (North America)

## 1. Welcome!

Thank you for using Entone's Kamai Hybrid TV Receiver. This quick reference gives quick instruction for setting up and using Kamai. For detailed setup and usage instruction, please refer to the *Kamai User's Guide* and the *URC 4 User's Guide* in <http://www.entone.com>.

## 2. Before You Begin

Check that the video output connector of the Kamai is properly connected to the input connector of the TV(s).

In your TV, select the input source that the Kamai is used.

"TV OUT" output by default uses RF TV channel 3.

Check that you have connected Kamai "10/100 ETHERNET" to your network access device. For details of connecting Kamai to the network, please refer to your service provider.

Software upgrade is required when you power up Kamai for the first time. Software upgrade may take 5-10 minutes. Do not power off during software upgrade.

## 3. Install Remote Control Batteries

Install the two AA batteries (provided) into the remote control.



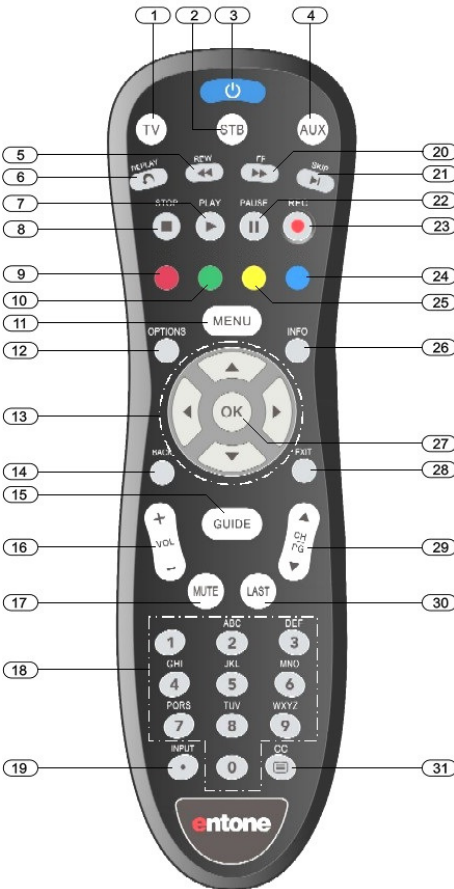
Important!! Use only new AA Alkaline batteries to insure consistent operation.

## 4. Understanding the Remote Control

This 3 mode Universal Remote Control can be programmed to control your Kamai and up to two other devices.

Kamai uses infrared (IR) to receive remote control signals. IR signals travel only short distances (40 feet or less), and cannot go through walls or other solid objects. You must point the remote control directly at the Kamai unit, with no objects blocking the line of sight to the front panel of the Kamai unit.

## 5. Using the Remote Control



The diagram and list provide a brief description of your remote control features. Entone provides this as a general guide to remote control usage. Functions may vary between different service providers.

Please contact your service provider for detailed functions and usages.

1. **TV** – Selects to control TV
2. **STB** – Puts remote control in STB mode
3. **POWER** – Switches the power on/off for the currently selected device. Switches STB to power on / standby mode.
4. **AUX** – Selects to control AUX device
5. **REW** – Fast rewinds video for VOD / DVR / live TV
6. **REPLAY** – Skips backward 30s of video for VOD / DVR
7. **PLAY** – Plays video for VOD / DVR / live TV
8. **STOP** – Stops video for VOD / DVR / live TV
9. **RED** – Feature enabled by service provider, contact service provider for more details
10. **GREEN** – Feature enabled by service provider, contact service provider for more details
11. **MENU** – Shows the on-screen menu
12. **OPTIONS** – Feature enabled by service provider, contact service provider for more details
13. **ARROW KEYS** – Navigates right, left, up, down in the on-screen guide
14. **BACK** – Back button for on-screen menu Feature enabled by service provider, contact service provider for more details
15. **GUIDE** – Shows the electronic program guide
16. **VOL + / -** – Increases or decreases volume of the currently selected device
17. **MUTE** – Turns the volume of the currently selected device off
18. **NUMBER KEYS** – Allows direct access to specific channels and menu items
19. **INPUT** – Changes the current A/V input of the selected device
20. **FF** – Fast-forwards the video for VOD / DVR / live TV
21. **SKIP** – Skips forward the video for VOD / DVR
22. **PAUSE** – Pauses video for VOD / DVR / live TV
23. **REC** – Records live TV
24. **YELLOW** – Feature enabled by service provider, contact service provider for more details
25. **YELLOW** – Feature enabled by service provider, contact service provider for more details
26. **INFO** – Shows on-screen information about the current TV / VOD / DVR program
27. **OK** – Executes the currently selected menu option
28. **EXIT** – Exits the current menu item
29. **CH UP/DOWN** – Changes channel up or down
30. **LAST** – Changes channel to the most recently viewed channel
31. **CC** – Toggles closed captioning on or off

## 6. Manually Program Additional Devices

Perform the following steps to program the TV and AUX device:

1. Locate the device code for your desired device in the device code table provided in the Appendix. If you could not find the device code for your device or it does not work after trying the listed device codes for your device brand, then you can go to the next section to try the auto-search procedures.
2. Turn on your device and with media inserted (if applicable).
3. On the remote control, press a device mode key for 5 seconds (i.e., "TV" or "AUX"). The device mode key will light up.  
**NOTE:** Use the "AUX" mode key to program control of VCR, DVD player, cable box, satellite set-top-box and audio device.
4. Enter the four-digit device code for you device. If you perform this procedure correctly, the selected device mode key backlight will blink twice. **NOTE:** If you enter an invalid device code, the selected device mode key will fast blink 7 times. Device program mode will be terminated.
5. Aim the remote control at your device and press the "POWER" once. The device should be turned off. If it does not respond, repeat the above steps.

## 7. Auto-Scan (Program Additional Devices)

If your device does not respond to the remote control after trying all devices codes listed for you brand, or if your brand is not listed at all, try searching for your device code as follows:

1. Power on the device and on the remote control, press a device mode key (i.e., "TV" or "AUX") and hold for 5s. The device mode key will light up.  
**NOTE:** Use the "AUX" mode key to program control of VCR, DVD player, cable box, satellite set-top-box and audio device.
2. Press the "POWER" key once and aim your new remote at the device.
3. Press either the "CH UP" key or "CH DOWN" key to do device auto-scan.
4. In this search mode, the remote control will send IR codes from the library in 5 second intervals. The device key will be on and blink every 5 seconds while in the device scan mode.
5. If the device turns off, a working code has been found. Press "OK" once to lock in the code. The selected mode key will blink twice.
6. If all code sets of that device are exhausted in the search and the "OK" is not pressed, the selected device key will fast blink 7 times and the search mode will be terminated.

## Appendix - Device Codes

Your Universal Remote Control (URC) can control many brands and models of television, VCR, DVD and other types of audio-visual equipment. The following pages list device codes for many categories and brands of equipment. Many brands list more than one code, and you may need to test several codes to find the best match for your equipment. If you cannot locate your brand, or none of the listed device codes works, then you may still use the auto-scan feature to try to locate a suitable device code.

### TV - Digital TV

Samsung	0163
Zenith	0165

### TV - HD Plasma Display

RCA	0242, 0262
-----	------------

### TV - HDTV

Apex	0083
Daewoo	0267, 0333, 0419, 0336
Hitachi	0091

ILO	0094
JVC	0071
Mitsubishi	0111, 0238, 0013, 0147
Panasonic	0311, 0012
Philips	0192, 0303, 0000, 0244
Proscan	0138
RCA	0138, 0158, 0140, 0262

Sampo	0055
Sharp	0198
Sony	0236, 0035, 0043, 0231
Zenith	0103, 0105

### TV - HDTV Monitor

Brilliant	0184
Panasonic	0161
Philips	0217
RCA	0282

Sears	0184
-------	------

**TV - HDTV Projection Monitor**

Panasonic	0215, 0299, 0310
Pioneer	0010, 0058
Zenith	0091

**TV - HDTV Projection TV**

Panasonic	0196
Sony	0236

**TV - LCD HDTV**

Akai	0108
ILO	0059
Olevia	0142
Polaroid	0212
Syntax	0142
Westinghouse	0021
Zenith	0018

**TV - LCD Projection TV**

Epson	0247
LG	0207
Panasonic	0033
Sony	0243, 0053, 0292

**TV - LCD TV**

Akai	0270
AOC	0275
Audiovox	0205, 0003, 0150
Benq	0028
Coby	0306, 0475, 0477, 0479, 0480, 0481, 0482, 0483, 0484, 0485
Dell	0070, 0256, 0230, 0376, 0363, 0441
Emerson	0115, 0442, 0333, 0334, 0331, 0330, 0419, 0391, 0450, 0457
Emprex	0134, 0394
Funai	0144
Hisense	0109
HP	0191
Initial	0271, 0458
Insignia	0139
JVC	0251, 0101, 0194

LG	0148, 0308, 0040, 0172
Magnavox	0044, 0271
Maxent	0098
Mintek	0271, 0458
Mitsubishi	0238
NEC	0149
NET-TV	0197
Norcent	0275
Olevia	0168, 0414, 0365, 0369, 0385
Panasonic	0253, 0038, 0285, 0117, 0291
Philips	0034, 0112
Polaroid	0130, 0089, 0078, 0281, 0167
RCA	0242
Samsung	0187, 0166, 0234, 0177, 0057, 0093, 0283, 0296, 0180
Sansui	0199
Sanyo	0031, 0298
Sharp	0008, 0160, 0219, 0084, 0241, 0060, 0294, 0074
Sony	0243, 0155, 0035, 0126, 0090
Sylvania	0144, 0115, 0284
Syntax	0168, 0414, 0365, 0369, 0385
Tatung	0092
Toshiba	0042, 0222, 0064
Trutech	0206
Viewsonic	0021, 0085, 0107, 0026, 0290, 0174, 0082, 0277, 0255, 0069, 0304
Vizio	0002
Westinghouse	0021, 0063, 0054, 0424, 0333, 0359, 0360, 0380, 0382, 0409
Zenith	0146

**TV - LCD TV/PC Monitor**

Sampo	0280
-------	------

**TV - LCD TV/Tuner Combo**

Polaroid	0130
----------	------

**TV - Plasma Display**

Acer	0229
Daewoo	0067
Fujitsu	0240
Funai	0250
Panasonic	0195
Pioneer	0203, 0077, 0065
Samsung	0171, 0118, 0095, 0258
Toshiba	0099
Viewsonic	0156, 0106
Zenith	0183, 0214, 0226

**TV - PLASMA TV**

Akai	0201
Elite	0213
Gateway	0269
Hewlett Packard	0123, 0400, 0402
HP	0191, 0400, 0402
ILO	0237, 0421, 0458
LG	0133, 0172
Magnavox	0047, 0025
Panasonic	0033, 0104, 0179
Pioneer	0213
Samsung	0166, 0254
Sanyo	0131
Sony	0155
SVA	0185, 0356, 0457
Viewsonic	0080
Vizio	0002

**TV - Plasma TV Monitor**

Akai	0170
Fujitsu	0252, 0049, 0260, 0186, 0257
Hitachi	0091, 0041, 0080, 0314
Marantz	0224
NEC	0224
NET-TV	0004
Panasonic	0039
Pioneer	0208
Plasmasync	0224

Sony	0289, 0086
Toshiba	0224, 0120
Zenith	0011

**TV - Projection HDTV**

Sharp	0313, 0246
-------	------------

**TV - Projection TV**

Hitachi	0091, 0066, 0141, 0100, 0020, 0261, 0235
JVC	0071, 0248
Magnavox	0202
Mitsubishi	0263, 0111, 0238, 0013, 0147, 0073, 0137
Panasonic	0033, 0196, 0110
Philips	0132
Pioneer	0152
RCA	0138, 0158
Samsung	0007, 0300, 0218, 0119
Sharp	0127
Sony	0243, 0178, 0135, 0125
Toshiba	0307, 0159, 0081, 0006
Zenith	0164

**TV - TV**

Admiral	0223, 0288, 0129, 0326, 0334
Advent	0312, 0341
Adventura	0143
Aiwa	0124
Akai	0153, 0177, 0046, 0287, 0347, 0420, 0339, 0512, 0513, 0514, 0515
Alleron	0268
America Action	0097
Amtron	0182
Anam	0097
Anam National	0279, 0182
AOC	0239, 0308, 0390, 0411, 0461, 0464
Apex	0249, 0264

Apex Digital	0227, 0329, 0343, 0490
Audiovox	0182, 0097, 0333, 0344, 0351, 0358, 0381, 0448, 0454, 0455, 0491
Aventura	0295, 0330
Axion	0448
Belcor	0308
Bell & Howell	0223, 0014
Benq	0079
Bradford	0182, 0097
Brockwood	0308
Broksonic	0097, 0288, 0032, 0046, 0199, 0334
Candle	0143, 0308
Carver	0325
Celebrity	0153, 0322
Celera	0227
Changhong	0227
Citizen	0182, 0221, 0308, 0061
Clarion	0097
Colortyme	0308
Commercial Solutions	0396, 0323
Concerto	0308
Contec	0097
Contec/Cony	0182
Craig	0182, 0097
Crosley	0122, 0322, 0325
Crown	0182, 0097
CTX	0027
Curtis	0486, 0496
Curtis Mathes	0017, 0014, 0221, 0122, 0209, 0308, 0129, 0323, 0325, 0333, 0326, 0339, 0327, 0419, 0367, 0386
CXC	0182, 0097
Cytron	0051, 0220

Daewoo	0239, 0062, 0274, 0308, 0061
Daytron	0308
Denon	0209, 0327
Diamond Vision	0045, 0216, 0188
Dimensia	0017
Dish Network System	0453
Dumont	0286, 0308
Durabrand	0048, 0295, 0097, 0288, 0334, 0331, 0330
Dwin	0129
Dynex	0435, 0437, 0439, 0462, 0470
Electroband	0153, 0322
Electrograph	0228, 0430
Electrohome	0153, 0279, 0308, 0334
Element	0469
Emerson	0182, 0268, 0014, 0295, 0097, 0288, 0062, 0032, 0162, 0308, 0276, 0061
Envision	0308, 0348, 0390, 0411, 0461, 0464
Epson	0301
ESA	0295, 0177, 0347, 0330, 0450, 0457
Fisher	0014
Fujitsu	0268, 0345
Funai	0182, 0268, 0295, 0097, 0169, 0322, 0330, 0378, 0457
Futuretech	0182, 0097
Gateway	0228, 0173, 0430, 0431
GE	0017, 0279, 0309, 0138, 0308, 0245, 0087, 0396, 0323, 0333, 0331, 0386
GFM	0330, 0457
Goldstar	0239, 0308, 0030, 0331

Grunpy	0182, 0268, 0097
Haier	0048, 0427, 0428, 0429, 0476
Hallmark	0308, 0331
Hannspree	0387, 0426, 0498
Harley Davidson	0169
Harman/Kardon	0122, 0325
Harvard	0182, 0097
Havermy	0129, 0326
Helios	0356
Hello Kitty	0333
Hisense	0116, 0383, 0465, 0487, 0493
Hitachi	0209, 0091, 0273, 0308, 0169, 0417, 0366, 0327
Ilo	0271
IMA	0182
Infinity	0122, 0325
Insignia	0001, 0278, 0211, 0395, 0408, 0330, 0403, 0435, 0447, 0457, 0459, 0462, 0492
Janeil	0143
JBL	0122, 0325
JC Penney	0017, 0239, 0221, 0308
JCB	0153, 0322
Jensen	0308, 0341
JVC	0102, 0175, 0297, 0259, 0096, 0121, 0334, 0324, 0335, 0340, 0372, 0413, 0434, 0474
Kawasho	0153, 0308
KDS	0401
KEC	0097
Kenwood	0308
KLH	0227, 0343
Kloss Novabeam	0182, 0143
KTV	0182, 0097
Lemon	0510

LG	0239, 0395, 0377, 0331, 0353, 0488, 0494, 0508
Lloyd's	0169
Logik	0223
Luxman	0308
LXI	0017, 0014, 0122, 0323, 0325, 0329, 0331
MAG	0401
Magnasonic	0061
Magnavox	0122, 0022, 0009, 0308, 0276, 0169, 0397, 0444, 0325, 0344, 0373, 0390, 0450, 0457, 0458, 0489
Magnin	0245
Majestic	0223
Marantz	0122, 0308, 0397, 0325
Matsushita	0332, 0335
Maxent	0228, 0430
Megatron	0209, 0331, 0327
Memorex	0223, 0239, 0014, 0288, 0144, 0019, 0075, 0030, 0334, 0328, 0331, 0447
MGA	0239, 0308, 0245, 0328, 0331
Midland	0286, 0323
Mitsubishi	0239, 0263, 0308, 0129, 0087, 0371, 0326, 0328, 0331
Montgomery Ward	0223
Motorola	0279, 0129, 0326
MTC	0239, 0221, 0308
Multitech	0182, 0097
NAD	0329, 0331, 0357, 0368
NEC	0279, 0239, 0308, 0422, 0438
NetTV	0430
Net-TV	0228
Nexus Electronics	0469

Nikko	0331
Norcent	0116, 0390, 0411
Onwa	0182, 0097
Optimus	0075, 0332, 0335
Optoma	0387
Optonica	0225, 0129, 0326
Orion	0288, 0001, 0032, 0334
Panasonic	0279, 0056, 0036, 0196, 0190, 0176, 0029, 0075, 0399, 0332, 0398, 0335, 0378, 0449, 0452, 0509
PARK	0466
Penney	0245, 0030, 0323, 0329, 0331, 0386
Petters	0405
Philco	0279, 0239, 0122, 0050, 0308, 0325, 0330, 0378, 0391, 0457
Philips	0279, 0122, 0068, 0128, 0114, 0016, 0308, 0397, 0444, 0325, 0338, 0445, 0489
Philips Magnavox	0068, 0022, 0114
Pilot	0308
Pioneer	0308, 0398, 0337, 0357, 0375
Polaroid	0227, 0204, 0405, 0356, 0379, 0383, 0401, 0433, 0459, 0467
Portland	0239, 0308, 0333, 0419
Price Club	0221
Prima	0312, 0341, 0437
Proscan	0017, 0138, 0396, 0323, 0386, 0468, 0473
Proton	0308, 0331
Proview	0401
Pulsar	0286, 0308
Quasar	0279, 0075, 0332, 0335

Radio Shack	0014, 0097, 0169
Radio Shack/Realistic	0017, 0182, 0014, 0225, 0308
RadioShack	0323, 0331
RCA	0017, 0279, 0239, 0266, 0138, 0157, 0242, 0023, 0308, 0005, 0262, 0245, 0087, 0407, 0396, 0323, 0326, 0337, 0361, 0367, 0370, 0386, 0436, 0453, 0456, 0459, 0471, 0472
Realistic	0014, 0097, 0331
Runco	0286
Sampo	0228, 0265, 0308, 0430
Samsung	0239, 0221, 0232, 0233, 0177, 0193, 0308, 0347, 0339, 0331, 0335, 0342, 0362, 0463, 0503
Sansui	0288, 0316, 0001, 0032, 0046, 0199, 0169, 0334, 0330, 0393, 0447
Sanyo	0014, 0308, 0245, 0325, 0364
Sceptre	0389, 0412
Scotch	0331
Scott	0182, 0268, 0097, 0308, 0331, 0423
Sears	0017, 0268, 0014, 0145, 0122, 0295, 0308, 0169, 0030, 0323, 0325, 0329, 0331, 0330
Sharp	0225, 0308, 0113, 0129, 0349, 0326, 0504, 0505
Sheng Chia	0129, 0326
Sherwood	0392

Shogun	0308
Signature	0223
Sky	0507
Sony	0153, 0243, 0072, 0154, 0302, 0305, 0037, 0169, 0346, 0322, 0506
Soundesign	0182, 0268, 0097, 0308, 0331
Sova	0455
Soyo	0404, 0440
Spectroniq	0401
Squareview	0145, 0295, 0330
SSS	0182, 0097, 0308
Starlite	0182, 0097
SunBrite	0478
Superscan	0276, 0129, 0326, 0355, 0450
Supremacy	0143
Supreme	0153, 0322
Sylvania	0122, 0295, 0024, 0315, 0308, 0276, 0442, 0325, 0330, 0378, 0383, 0391, 0446, 0450, 0457, 0497
Symphonic	0182, 0145, 0295, 0097, 0272, 0169, 0330, 0450
Tandy	0129, 0326
Tatung	0279, 0173, 0431
Technics	0332
Techview	0352
Techwood	0308
Teknika	0223, 0239, 0182, 0268, 0221, 0122, 0097, 0308, 0325, 0328
Telefunken	0339
Tevion	0511
Thomas	0169
TMK	0308, 0331

Toshiba	0014, 0221, 0200, 0136, 0015, 0293, 0189, 0046, 0052, 0210, 0151, 0321, 0406, 0329, 0374, 0377, 0335, 0350, 0368, 0388, 0418, 0422, 0451, 0460, 0499
TVS	0288, 0334
Venturer	0443
Victor	0324
Vidikron	0122, 0325
Vidtech	0239, 0308, 0331
Viewsonic	0228, 0430, 0354, 0355, 0359, 0384, 0410, 0415, 0416, 0425, 0461, 0464
Viking	0143
Viore	0421, 0466, 0486
Vizio	0173, 0432, 0355, 0359, 0431, 0500, 0501, 0502
Wards	0017, 0223, 0239, 0268, 0225, 0122, 0308, 0325, 0331, 0357, 0368
Waycon	0329
White Westinghouse	0288, 0062, 0334, 0419
Wyse	0390
Yamaha	0239, 0308
Zenith	0223, 0288, 0286, 0088, 0032, 0308, 0169, 0322, 0395, 0323, 0334, 0377, 0331, 0366, 0327, 0419

**TV - TV Monitor**

Sony	0181
------	------

**TV - TV/DVD/Tuner Combo**

Panasonic	0176
Sony	0126

**TV - TV/DVD/VCR/Tuner Combo**

Polaroid	0281
----------	------

**TV - TV/Tuner**

Audiovox	0205, 0003
----------	------------

**TV - TV/VCR Combo**

Broksonic	0032
Citizen	0061
Colt	0076
Daewoo	0061
Emerson	0032, 0061
Funai	0169
GE	0245, 0087
Goldstar	0030
Harley Davidson	0169
Hitachi	0169
Lloyd's	0169
Magnasonic	0061
Magnavox	0169
Magnin	0245
Memorex	0075, 0030
MGA	0245
Mitsubishi	0087
Optimus	0075
Orion	0032
Panasonic	0075
Penney	0245, 0030
Quasar	0075
RadioShack	0169
RCA	0245, 0087
Sansui	0032, 0169
Sanyo	0245
Sears	0169, 0030
Sony	0169
Symphonic	0169
Thomas	0169
Zenith	0032, 0169

**TV - TV/DVD Combo**

Aiwa	0124
Akai	0046, 0270
Apex	0264
Audiovox	0150
Broksonic	0046, 0199
Coby	0306

Cytron	0220
Diamond Vision	0216
Emerson	0162
Ilo	0271
Initial	0271
JVC	0121
LG	0308, 0040
Magnavox	0271
Mintek	0271
Panasonic	0190
Philips	0016, 0271
RCA	0023
Samsung	0193
Sansui	0046, 0199, 0199
Sylvania	0315, 0284
Toshiba	0046, 0052, 0210

**TV - TV/DVD/VCR Combo**

Akai	0287
Diamond Vision	0188
Emerson	0276
Magnavox	0276
Memorex	0019
Panasonic	0029
Polaroid	0204
RCA	0005
Samsung	0193
Sharp	0113
Superscan	0276
Sylvania	0276
Toshiba	0151

**VCR - DVR/VCR Combo**

JVC	3017, 3071, 3054, 3080
-----	------------------------

**VCR - VCR**

ABS	3053
Adventura	3062
Aiwa	3062
Akai	3068, 3039
Alienware	3053
American High	3021
Asha	3052

Audio Dynamics	3024
Audiovox	3043
Beaumarck	3052
Bell & Howell	3083
Broksonic	3051, 3067, 3060, 3022
Calix	3043
Candle	3052, 3043
Canon	3021
Citizen	3052, 3043, 3097
Colortyme	3024
Colt	3008
Craig	3052, 3043
Curtis Mathes	3020, 3024, 3052, 3021, 3011
Cybernex	3052
Cyperpower	3053
Daewoo	3062, 3010, 3055, 3097
DBX	3024
Dell	3053
Diamond Vision	3058
Dimensia	3020, 3011
Durabrand	3073
Dynatech	3062
Electrohome	3043
Electrophonic	3043
Emerson	3043, 3021, 3062, 3063, 3049, 3003, 3097, 3022
ESA	3007
Fisher	3083, 3050, 3087
Fuji	3068, 3021
Funai	3062, 3037, 3063, 3091
Garrard	3062
Gateway	3053
GE	3020, 3052, 3021, 3011, 3069, 3019
Go Video	3027



Goldstar	3024, 3043, 3064, 3001
Gradiente	3062
Harley Davidson	3062, 3091
Harman/Kardon	3024
Headquarter	3083
Hewlett Packard	3053
Hitachi	3066, 3014, 3091
Howard Computers	3053
HP	3053
Hush	3053
iBUYPOWER	3053
Insignia	3082
Instant Replay	3021
JC Penney	3024, 3083, 3052, 3043, 3021
JCL	3021
JVC	3024, 3083, 3098, 3044, 3041, 3089, 3028, 3017, 3025, 3034, 3071, 3046, 3054, 3094, 3030
Kenwood	3024, 3083
Kodak	3043, 3021
LG	3043, 3075, 3082, 3081
Linksys	3053
Lloyd's	3062, 3091
LXI	3043
Magnasonic	3097
Magnavox	3021, 3073, 3013, 3085, 3003, 3091
Magnin	3043, 3069
Marantz	3024, 3083, 3021
Marta	3043
Matsushita	3021
Media Center PC	3053
MEI	3021

Memorex	3083, 3052, 3043, 3021, 3062, 3073, 3038, 3090, 3067, 3009, 3092, 3001
MGA	3069
MGN Technology	3052
Microsoft	3053
Mind	3053
Mitsubishi	3031, 3019
Motorola	3021
MTC	3052
Multitech	3052, 3062
NEC	3024, 3083
Nikko	3043
Niveus Media	3053
Noblex	3052
Northgate	3053
Olympus	3021
Optimus	3043, 3092
Orion	3038, 3022
Panasonic	3021, 3040, 3023, 3096, 3070, 3076, 3092
Penney	3069, 3001
Philco	3021
Philips	3021, 3013, 3063, 3074
Philips Magnavox	3013
Pilot	3043
Pioneer	3002
Polaroid	3059, 3077
Presidian	3063
Proscan	3020, 3011, 3016
Pulsar	3073
Quarter	3083
Quartz	3083
Quasar	3021, 3092
Radio Shack	3043, 3091
Radio Shack/Realistic	3083, 3052, 3043, 3021, 3062

Radix	3043
Randex	3043
RCA	3020, 3052, 3021, 3011, 3088, 3035, 3000, 3079, 3069, 3019
Realistic	3083, 3052, 3043, 3021, 3062
Ricavision	3053
Ricoh	3026
Runco	3073
Samsung	3052, 3048, 3012
Sanky	3073
Sansui	3038, 3047, 3067, 3091, 3022
Sanyo	3083, 3052, 3050, 3087, 3093, 3069
Sears	3083, 3043, 3021, 3091, 3001
Sharp	3084, 3065, 3086, 3078, 3015, 3056, 3018
Shintom	3068
Shogun	3052
Singer	3021, 3026
Sony	3068, 3042, 3053, 3005, 3033, 3004, 3072, 3029, 3091
Stack	3053
Superscan	3003
Sylvania	3021, 3062, 3063, 3032, 3003
Symphonic	3062, 3037, 3063, 3091
Systemax	3053
Tagar Systems	3053
Tandy	3083
Tashiko	3043
Teac	3062
Technics	3021
Teknika	3043, 3021, 3062
Thomas	3091
TMK	3052
Toshiba	3053, 3057, 3095, 3006, 3045, 3036

Totevision	3052, 3043
Touch	3053
Unitech	3052
Vector Research	3024
Video Concepts	3024
Videosonic	3052
Viewsonic	3053
Voodoo	3053
Wards	3052, 3043, 3021, 3062
White Westinghouse	3037
XR-1000	3021, 3062
Yamaha	3024, 3083
Zenith	3068, 3026, 3073, 3061, 3082, 3099, 3091, 3022
ZT Group	3053

**VCR - TV/VCR Combo**

Broksonic	3022
Citizen	3097
Colt	3008
Daewoo	3097
Emerson	3097, 3022
Funai	3091
GE	3069, 3019
Goldstar	3001
Harley Davidson	3091
Hitachi	3091
Lloyd's	3091
Magnasonic	3097
Magnavox	3091
Magnin	3069
Memorex	3092, 3001
MGA	3069
Mitsubishi	3019
Optimus	3092
Orion	3022
Panasonic	3092
Penney	3069, 3001

Quasar	3092
RadioShack	3091
RCA	3069, 3019
Sansui	3091, 3022
Sanyo	3069
Sears	3091, 3001
Sony	3091
Symphonic	3091
Thomas	3091
Zenith	3091, 3022

**VCR - TV/DVD/VCR Combo**

Akai	3039
Diamond Vision	3058
Emerson	3003
Magnavox	3003
Memorex	3009
Panasonic	3076
Polaroid	3077
RCA	3079
Samsung	3012
Sharp	3018
Superscan	3003
Sylvania	3003
Toshiba	3036

**VCR - DVD/VCR Combo**

Broksonic	3051, 3067, 3060
Daewoo	3055
Emerson	3063, 3049
Funai	3063
Go Video	3027
Goldstar	3064
Hitachi	3066, 3014
Insignia	3082
JVC	3028, 3025, 3034, 3046, 3030
LG	3075, 3075, 3082, 3081
Magnavox	3085
Memorex	3067
Panasonic	3070
Philips	3063, 3074
Pioneer	3002

Polaroid	3059
Presidian	3063
RCA	3000
Samsung	3048
Sansui	3067, 3047
Sanyo	3093
Sharp	3015, 3078, 3056
Sony	3072, 3029
Sylvania	3063, 3032
Symphonic	3063
Toshiba	3006, 3045
Zenith	3082, 3099

**DVD - DVD**

Advent	4234
Aiwa	4077
Akai	4093, 4088, 4129, 4199
Alco	4118
Alpine	4040
Amphion MediaWorks	4023
AMW	4023
Apex	4201, 4074, 4124
Apex Digital	4111
Aspire Digital	4246
Audiovox	4118, 4229, 4041, 4022
Blaupunkt	4111, 4188
Blue Parade	4117
BOSE	4095, 4235
Broksonic	4093, 4088, 4173
California Audio Labs	4017
Cambridge SoundWorks	4144
Clarion	4242
Classic	4218, 4140
Coby	4243, 4149, 4089, 4147
CyberHome	4107

Cytron	4116
Daewoo	4035, 4067
Denon	4017, 4222, 4054, 4037, 4090, 4047
Desay	4176
Diamond Vision	4158, 4075, 4014
Disney	4049
Emerson	4165, 4049, 4181, 4208, 4030, 4206, 4079
ESA	4167
Fisher	4065
Funai	4049, 4181, 4208
GE	4224, 4111
Go Video	4072
Goldstar	4162
GPX	4220
Gradiente	4017
Greenhill	4111
Grundig	4085
Harman/Kardon	4244
Hitachi	4180, 4156, 4028
Ilo	4066
Initial	4111, 4060
Insignia	4121
Integra	4209, 4117
JBL	4221
Jensen	4149
JVC	4152, 4006, 4212, 4056, 4245, 4186, 4123, 4064, 4195
Kawasaki	4118
Kenwood	4017, 4031
KLH	4118, 4111, 4214
Konka	4010
Koss	4002, 4011, 4052, 4099, 4239
Lasonic	4210
Lenox	4061
LG	4105, 4223, 4029
Liquid Video	4011

Magnavox	4165, 4198, 4085, 4049, 4050, 4060
Marantz	4085, 4168, 4193
Memorex	4093, 4225, 4012
Microsoft	4224
Mintek	4111, 4237, 4060
Mitsubishi	4207, 4155
NAD	4157
Nakamichi	4191
Nesa	4111
Norcent	4243, 4083, 4073, 4232
Onkyo	4209, 4198, 4027, 4062, 4159, 4133, 4058
Oritron	4002, 4011
Panasonic	4017, 4198, 4120, 4081, 4222, 4091, 4200, 4038, 4143, 4080, 4044, 4013
Philips	4198, 4085, 4049, 4019, 4070, 4208, 4247, 4078, 4009, 4161
Pioneer	4163, 4117, 4153, 4194, 4130, 4119
Polaroid	4230, 4016, 4069, 4102
Polk Audio	4085
Presidian	4049, 4208
Proscan	4224, 4226
Qwestar	4002
RCA	4118, 4224, 4117, 4111, 4007, 4226, 4042, 4086, 4185, 4160
Regent	4061
Rotel	4152
Rowa	4092
Sampo	4182
Samsung	4017, 4180, 4032, 4051, 4082, 4241, 4135, 4146
Sansui	4093, 4088, 4173, 4251
Sanyo	4093, 4132, 4213

Sharp	4049, 4204, 4131, 4202, 4115
Sherwood	4177, 4203
Shinco	4008
Shinsonic	4205
Sony	4205, 4216, 4174, 4045, 4169, 4166, 4189, 4240, 4094, 4211, 4154, 4048, 4127, 4142, 4249, 4217
Sungale	4228
Superscan	4165
Sylvania	4165, 4049, 4181, 4208, 4187, 4112, 4001
Symphonic	4049, 4104, 4208
Teac	4118, 4015
Technics	4017, 4222
Techwood	4137
Theta Digital	4117
Toshiba	4093, 4198, 4184, 4071, 4088, 4024, 4173, 4175, 4100
Trutech	4059
Urban Concepts	4198
Venturer	4118, 4036
Xbox	4224
Yamaha	4017, 4085, 4106, 4101
Zenith	4198, 4025, 4021

**DVD - DVD Recorder**

Apex	4097
Broksonic	4026
Gateway	4190
Go Video	4190
Hitachi	4150, 4171
Insignia	4145
Irradio	4126
JVC	4046, 4000, 4057, 4003, 4164, 4179, 4227, 4098
LG	4148, 4076, 4170
LiteON	4248, 4238, 4215, 4005

Lite-On	4190
Panasonic	4084, 4043, 4151, 4039
Philips	4250, 4192, 4231, 4053
Pioneer	4068, 4138
RCA	4219
Samsung	4150, 4136, 4178
Sansui	4063
Sanyo	4034
Sensory Science	4190
Sharp	4096, 4108, 4087, 4109
Sony	4183
Sylvania	4233, 4033
Toshiba	4020, 4236, 4114
Yamaha	4139
Zenith	4018, 4122, 4170

**DVD - DVR**

JVC	4004, 4113, 4128, 4196
Pioneer	4055
RCA	4103
Toshiba	4125, 4110, 4134

**DVD - DVR/VCR Combo**

JVC	4004, 4113, 4128, 4196
-----	------------------------

**DVD - TV/DVD/Tuner Combo**

Panasonic	4143
Polaroid	4069
Sony	4127

**DVD - TV/DVD Combo**

Aiwa	4077
Akai	4088, 4129
Apex	4124
Audiovox	4229
Broksonic	4088, 4173
Coby	4089
Cytron	4116
Diamond Vision	4075
Emerson	4206
Ilo	4066

Initial	4060
JVC	4186
LG	4223, 4029
Magnavox	4060
Mintek	4060
Panasonic	4038
Philips	4078, 4060
RCA	4086
Samsung	4082
Sansui	4088, 4173, 4251
Sylvania	4112, 4001
Toshiba	4088, 4024, 4173

**DVD - TV/DVD/VCR Combo**

Akai	4199
Diamond Vision	4014
Emerson	4165
Magnavox	4165
Memorex	4012
Panasonic	4080
Polaroid	4102
RCA	4185
Samsung	4241
Sharp	4202
Superscan	4165
Sylvania	4165
Toshiba	4175

**DVD - DVD/VCR Combo**

Broksonic	4093, 4026, 4173
Daewoo	4067
Emerson	4208, 4030
Funai	4208
Go Video	4072
Goldstar	4162
Hitachi	4171, 4028
Insignia	4145
JVC	4000, 4245, 4057, 4003, 4164
LG	4148, 4076, 4170, 4105
Magnavox	4050
Memorex	4093
Panasonic	4200

Philips	4208, 4247
Pioneer	4138
Polaroid	4016
Presidian	4208
RCA	4042
Samsung	4051
Sansui	4093, 4063
Sanyo	4132
Sharp	4108, 4087, 4131
Sony	4154, 4048
Sylvania	4208, 4187
Symphonic	4208
Toshiba	4114, 4071
Zenith	4170, 4021

**DVD - HTIB**

Audiovox	4041, 4022
BOSE	4235
Cambridge SoundWorks	4144
Classic	4140
Coby	4147
Denon	4047
Emerson	4079
Insignia	4121
JBL	4221
JVC	4123, 4064, 4195
Koss	4099, 4239
Onkyo	4159, 4133, 4058
Panasonic	4044, 4013, 4197
Philips	4009, 4161
Pioneer	4194, 4130, 4119
RCA	4219
Samsung	4135, 4146
Sanyo	4213
Sharp	4115
Sherwood	4203
Sony	4172, 4142, 4249, 4217, 4141
Toshiba	4100
Venturer	4036
Yamaha	4106, 4101

**AUDIO - Amplifier**

Denon	2041
JBL	2090
Krell	2068
Magnavox	2013
Marantz	2098
Parasound	2034, 2103
Pioneer	2070, 2031
RCA	2010
Rotel	2011
Soundmatters	2039
Technics	2008
Yamaha	2079, 2026

**AUDIO - Audio Cassette**

Curtis Mathes	2070
Magnavox	2013
Marantz	2008, 2013
Optimus	2070
Pioneer	2070
Technics	2008

**AUDIO - Audio System**

Curtis Mathes	2070
Pioneer	2070

**AUDIO - LCD TV/Tuner Combo**

Polaroid	2028
----------	------

**AUDIO - Phono**

Magnavox	2013
Marantz	2013
Pioneer	2070

**AUDIO - Receiver**

JBL	2020
Sanyo	2071

**AUDIO - Receiver/Amplifier**

Yamaha	2026
--------	------

**AUDIO - Receiver/Tuner**

Adcom	2078
Aiwa	2085, 2037, 2093
Audiovox	2077, 2036
BOSE	2060, 2032

Cambridge SoundWorks	2053
Carver	2085
Classic	2009
Coby	2045
Curtis Mathes	2070
Denon	2023, 2091, 2016
Emerson	2014
Harman/Kardon	2085, 2052, 2094
Insignia	2082, 2063, 2038
JBL	2020
JVC	2097, 2073, 2029, 2006, 2000, 2024
Kenwood	2019, 2072, 2044, 2089, 2099, 2012
Linn	2085
Magnavox	2013, 2085
Marantz	2008, 2013, 2085, 2056
Mitsubishi	2080
NAD	2095
Nakamichi	2033
Onkyo	2067, 2017, 2002, 2057, 2100, 2065
Optimus	2070, 2054
Panasonic	2008, 2088, 2058, 2007, 2051, 2066
Philips	2085, 2096, 2047
Pioneer	2070, 2048, 2062, 2074, 2030, 2027, 2022, 2049
Polk Audio	2050
Quasar	2008
RCA	2059
Rotel	2011
Samsung	2064, 2021
Sansui	2085
Sharp	2001
Sherwood	2046, 2015
Sony	2086, 2081, 2092, 2061, 2083, 2069, 2101, 2025
Technics	2008, 2088, 2058

Toshiba	2084
Wards	2085
Yamaha	2075, 2003, 2040, 2076

**AUDIO - Tuner**

Aiwa	2043
Audiovox	2087
Koss	2018
Panasonic	2007, 2004, 2042
Polaroid	2028, 2035
Sony	2055, 2025
Venturer	2036

**AUDIO - Tuner/CD Combo**

Aiwa	2043
BOSE	2060
Panasonic	2042

**AUDIO - TV/DVD/Tuner Combo**

Panasonic	2004
Polaroid	2035
Sony	2055

**AUDIO - TV/Tuner**

Audiovox	2087
----------	------

**AUDIO - TV/VCR/Tuner Combo**

Panasonic	2007
-----------	------

**AUDIO - HTIB**

Audiovox	2077, 2036
BOSE	2032
Cambridge SoundWorks	2053
Classic	2009
Coby	2045
Denon	2016
Emerson	2014
Insignia	2038
JBL	2020
JVC	2006, 2000, 2024
Koss	2018, 2018
Onkyo	2057, 2100, 2065
Panasonic	2051, 2066, 2102
Philips	2096, 2047
Pioneer	2027, 2022, 2049

RCA	2059
Samsung	2064, 2021
Sanyo	2071
Sharp	2001
Sherwood	2015
Sony	2101, 2025, 2025, 2025, 2005
Toshiba	2084
Venturer	2036
Yamaha	2040, 2076

**CD - CD**

ADC	4274
Aiwa	4272
BOSE	4269

Denon	4273
Harman Kardon	4270
JVC	4261, 4259
Kenwood	4263
Marantz	4275
McIntosh	4265
Nakamichi	4271
Onkyo	4257, 4278
Panasonic	4254, 4264
Philips	4262
Pioneer	4255
RCA	4256
Sanyo	4258

Sherwood	4268
Sony	4276, 4266, 4252
Teac	4277
Technics	4267
Yamaha	4260

**CD - CD/CD Recorder**

Philips	4262
---------	------

**CD - Tuner/CD Combo**

Aiwa	4272
BOSE	4269
Panasonic	4254