APPENDIX I

: USER'S MANUAL

EUT Type: RF REMOTE CONTROLLER

FCC ID.: OZ5URC9000LRF

Operating Instructions For

PHAZR-5
Cable Remote Control

UR5L-9000LRF & UR5L-9020LRF

① Introduction

The PHAZR-5 UR5L-9000LRF & UR5L-9020LRF is designed to operate the CISCO / SA, Pioneer, Pace Micro, Samsung and Motorola digital set tops, Plus the majority of TV, AUD, DVD and AUX equipment on the market as shown below.

CBL : Cable Set-Top Box   **TV** : Televisions
AUD : Audio Receivers   **DVD** : DVD Players
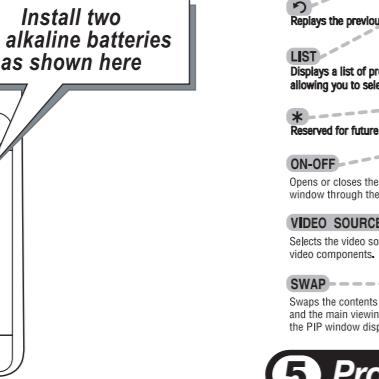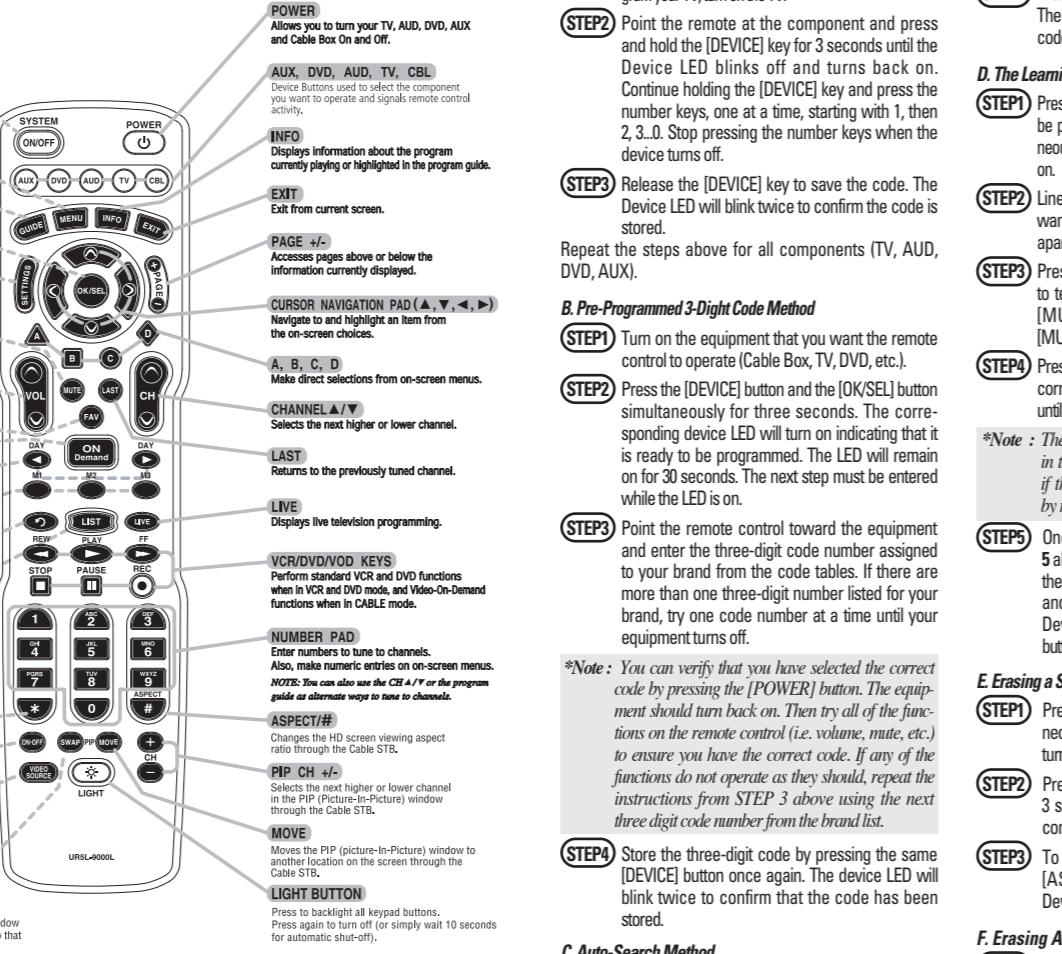**AUX** : Media PC, Gaming System, etc.

② Replacing Batteries

Before you program or operate the remote control, you must install two new AA alkaline batteries.

STEP1 Remove the battery compartment cover on the back of your remote control.

STEP2 Check battery polarity carefully, and install the batteries as shown in the illustration below.

STEP3 Replace the battery compartment cover.

Install two AA alkaline batteries as shown here

③ Operations

DEFAULT STATE:
Device Default: Cable Set-Top Box (STB)
Channel Default: CABLE channel and numbers through the CABLE STB. You have the option of controlling your CABLE channel and numbers through the TV or AUD. Refer to section **K** for programming steps.

Volume Default: Volume and Mute control are automatically transferred to the respective Component based on the Device selected:

CBL: Cable Set-Top Box ; **TV:**TV ; **AUD:**AUD.
DVD:TV ; **AUX:**AUX. You have the option of controlling CABLE Volume and Mute through the TV, DVD or AUD. Refer to section **J** for programming steps.

Universal Remote Control, Inc.
www.universalremote.com
OCE-0087C Rev 01 (04/01/11)

④ Button Functions

SYSTEM ON/OFF
Designed to send Power On/Off commands for up to five Components with one button press. Refer to section 1 for details.

POWER
Allows you to turn your TV, AUD, DVD, AUX and Cable Box On and Off.

AUX, DVD, AUD, TV, CBL
Device Buttons used to select the component you want to operate and signals remote control activity.

MENU
Displays the Applications Menu.

GUIDE
Displays the program guide listings.

INFO
Displays information about the program currently playing or highlighted in the program guide.

OK/SEL
Selects highlighted screen options.

EXIT
To exit current screen.

SETTINGS
Displays settings menu.

PAGE ▲/▼
Accesses pages above or below the information currently displayed.

MUTE
Silences the audio. Press to activate. Press again to restore sound to the previous level.

CURSOR NAVIGATION PAD (▲, ▼, ◄, ►)
Navigate to and highlight an item from the screen displayed.

VOLUME ▲/▼
Raises or lowers the sound level.

A, B, C, D
Make direct selections from on-screen menus.

FAV
Displays favorite channels.

CHANNEL ▲/▼
Selects the next higher or lower channel.

ON DEMAND
Provides direct access to On Demand channel.

LAST
Returns to the previously tuned channel.

DAY ◄/►
Skip forward or backward a whole day in the program guide.

LIVE
Displays live television programming.

M BUTTONS
Cable company custom-programmable Macros. Refer to Section **L** for custom-programming steps.

VCR/DVD/VOD KEYS
Control your devices in VCR/DVD/VOD mode. Features include PLAY, STOP, PAUSE, FF, REW, RECORD and SKIP.

▶ (II)
Replays the previous five seconds of a program.

NUMBER PAD
Enter numbers to tune to channels. Also, make numeric entries on on-screen menus.
NOTE: You can also use the CH ▲ / ▼ or the program guide as alternate ways to tune to channels.

LIST
Displays a list of programs you have recorded, allowing you to select one for viewing.

ASPECT/#
Changes the HD screen viewing aspect ratio through the Cable STB.

PIP CH ◄/►
Selects the next higher or lower channel in the PIP (Picture-In-Picture) window through the Cable STB.

✱
Reserved for future use.

ON-OFF
Opens or closes the PIP (Picture-In-Picture) window through the Cable STB.

MOVE
Moves the PIP (picture-In-Picture) window to another location on the screen through the Cable STB.

VIDEO SOURCE
Selects the video source from available video components.

LIGHT BUTTON
Press to backlight all keypad buttons. Press again to turn off (or simply wait 10 seconds for automatic shut-off).

SWAP
Swaps the contents of the PIP (Picture-In-Picture) window and the main viewing screen through the Cable STB so that the PIP window displays on the main screen.

⑤ Programming the Remote Control

IMPORTANT SETUP NOTE!

In this section when you are instructed to press a [DEVICE] button, that means to press either the CBL, TV, AUD, DVD or AUX button, depending on what device you are programming the remote to operate.

There are five ways you can program your remote:
* **Quick Set-up Method**   * **The Pre-Programmed 3-Digit Code Method**
* **The Auto-Search Method**   * **The Learning Method**
* **RF Setting Method**

The Quick Set-up Method is a unique feature that enables the fastest and easiest setup by using a 1 digit code. This is the quickest way to set up devices made by popular manufacturers.

The Pre-Programmed Code Method allows you to setup all of the buttons at once by entering 3-digit code numbers that correspond with the components manufacture/brand. Code tables for this method are on the backside of the operating instructions.

The Auto-Search Method scans through all of the codes in the remote control, one at a time allowing you to identify the correct code.

The Learning Method allows you to transfer functions from other remotes to the **PHAZR-5** one button at a time.

IMPORTANT SETUP NOTE!

This pertains to all programming steps. When you are in setup mode the device LED will light for 30 seconds. If you do not press a button within 30 seconds, the LED will turn off and exit setup mode, and you will need to start over.

A. Quick Set-Up Method

STEP1 Turn on the equipment you want to program. To program your TV, turn on the TV.

STEP2 Point the remote at the component and press and hold the [DEVICE] key for 3 seconds until the Device LED blinks off and turns back on. Continue holding the [DEVICE] key and press the number keys, one at a time, starting with 1, then 2, 3...0. Stop pressing the number keys when the device turns off.

STEP3 Release the [DEVICE] key to save the code. The Device LED will blink twice to confirm the code is stored.

Repeat the steps above for all components (TV, AUD, DVD, AUX).

B. Pre-Programmed 3-Digit Code Method

STEP1 Turn on the equipment that you want the remote control to operate (Cable Box, TV, DVD, etc.).

STEP2 Press the [DEVICE] button and the [OK/SEL] button simultaneously for three seconds. The corresponding device LED will turn on indicating that it is ready to be programmed. The LED will remain on for 30 seconds. The next step must be entered while the LED is on.

STEP3 Point the remote control toward the equipment and enter the three-digit code number assigned to your brand from the code tables. If there are more than one three-digit number listed for your brand, try one code number at a time until your equipment turns off.

Note : You can verify that you have selected the correct code by pressing the [POWER] button. The equipment should turn back on. Then try all of the functions on the remote control (i.e. volume, mute, etc.) to ensure you have the correct code. If any of the functions do not operate as they should, repeat the instructions from STEP 3 above using the next three digit code number from the list.

C. Auto-Search Method

If none of the three digit code numbers assigned to your brand of equipment works, or the code table does not list your brand, you can use the Auto Search Method to find the correct three-digit code number for your equipment by following steps:

STEP1 Turn on the equipment that you want the remote control to operate (Cable Box, TV, DVD, etc.).

STEP2 Press the [DEVICE] button and the [OK/SEL] button simultaneously for three seconds. The device LED will turn on indicating that it is ready to be programmed. The LED will remain on for 30 seconds. The next step must be entered while the LED is on.

STEP3 Press the [CH ▲] or [CH ▼] button one at a time or keep it pressed. The remote will emit a series of Power ON/OFF code signals. Release the [CH ▲] or [CH ▼] button as soon as the equipment turns off.

Note : You can verify that you have selected the correct code by pressing the [POWER] button. The equipment should turn back on. Then try all of the functions on the remote control (i.e. volume, mute, etc.) to ensure you have the correct code. If any of the functions do not operate as they should, repeat the

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instructions from STEP 3 above to continue the Auto Search Method.

STEP4 Press the same [DEVICE] button to store the code. The Device LED will blink twice to confirm that the code has been stored.

D. The Learning Method

STEP1 Press the [DEVICE] button (TV,AUD, DVD, or AUX) to be programmed and the [ASPECT] buttons simultaneously for 3 seconds until the Device LED light turns on.

STEP2 Press the [DEVICE] key to learn the code. The Device LED will blink twice to confirm the code is stored.

STEP3 Press the button on the **PHAZR-5** that you want to teach a command to. For example, press the [MUTE] button to learn a command to the [MUTE] button.

STEP4 Press and hold the button on the other remote that corresponds to the command you want to teach until the **PHAZR-5** Device LED light blinks twice.

Note : The LED will blink 5 times if there was an error in the learning process. Repeat STEPS 3 and 4 if this occurs. Continue learning other buttons by repeating STEPS 3 and 4.

STEP5 Once you have completed teaching the **PHAZR-5** all desired commands for the component, save the learned commands by pressing the [DEVICE] and [ASPECT] buttons simultaneously until the Device LED blinks 3 times. Now test all of the buttons to make sure they operate correctly.

Note : You can verify that you have selected the correct code by pressing the [POWER] button. The equipment should turn back on. Then try all of the functions on the remote control (i.e. volume, mute, etc.) to assure you have the correct code. If any of the functions do not operate as they should, repeat the instructions from STEP 3 above using the next three digit code number from the local list.

E. Erasing a Single Learned Command

STEP1 Press the [DEVICE] and [ASPECT] buttons simultaneously for 3 seconds until the Device LED light turns on.

STEP2 Press and hold the button you want to erase for 3 seconds. The Device LED will blink twice to confirm the erasure.

STEP3 To exit, press and hold both the [DEVICE] and [ASPECT] buttons simultaneously until the Device LED blinks 3 times.

F. Erasing All Learned Commands from One Device

STEP1 Press the [DEVICE] and [ASPECT] buttons simultaneously for 3 seconds until the Device LED light turns on.

STEP2 Press and hold both the [DEVICE] button you want to erase and the [PAUSE] button for 5 seconds. The Device LED will blink twice to confirm the erasure.

STEP3 To exit, press and hold both the [DEVICE] and [ASPECT] buttons simultaneously

G.To Identify the 3-Digit Code Programmed for a Device

STEP1 Press the appropriate [DEVICE] button and the [OK/SEL] button simultaneously for three seconds. The device LED will turn on for 30 seconds. The next step must be performed while the LED is on.

STEP2 Press the [INFO] button. The device LED will blink a number of times indicating the number of each digit for the code. Each digit is separated by a one second interval of the LED being off.

Example :One blink, (pause) three blinks, (pause) eight blinks indicates the code number 138.

Note : Ten blinks indicates the number 0.

H. Programming the AUX Device

You can take advantage of the AUX function to program a devices such as a media PC, gaming console or satellite radio receiver. Follow the instruction in section B to program an AUX device. You can also program the AUX button for a second TV, DVD or Audio Device. To do this follow the instructions below.

STEP1 Turn on the 5th device you want to program (TV, AUD, DVD, etc.).

STEP2 Press the [AUX] button and the [OK/SEL] button simultaneously for 3 seconds. The AUX device LED will turn on for 30 seconds.

STEP3 Press the [Device] button For the type of device you want to setup. Point the remote control toward the device and enter the 3-digit code number assigned to your brand.

Note : To program a second TV press TV, etc.

STEP4 When the equipment turns off verify that you have selected the correct code by pressing the [POWER] button. The equipment should turn back on. Then try all of the functions on the remote control (i.e. volume, mute, etc.) to ensure you have the correct code. If any of the functions do not operate as they should, enter the next 3-digit code number from the brand list.

STEP5 Once you have found the correct 3-digit code, save it by pressing the [AUX] button one more time. The [AUX] LED light will blink twice to confirm the code was stored.

I. Programming the System On/Off Button

This allows you to program the System On/Off button so it can send up to five power On/Off commands with one button press.

STEP1 Press the [CBL] button.

STEP2 Press the [SYSTEM ON/OFF] button and the [OK/SEL] button simultaneously for 3 seconds. The device LED will turn on for 30 seconds.

STEP3 Press the first [DEVICE] button you want to store in the [SYSTEM ON/OFF] button and then the [POWER] button. Repeat this for other Components until you have stored all the desired power commands into the [SYSTEM ON/OFF] button.

STEP4 Press the [CH ▲] button to save the power commands you stored. The [CBL] button will blink twice to confirm the commands have been saved.

J. Programming Volume Control

Volume and Mute control are factory programmed to automatically transfer to the respective Device mode You select, as follows:

| CBL : CBL | TV : TV | AUD : AUD |
| DVD : TV | AUX : AUX |

If you wish to store the TV volume control in CBL mode, use the following steps.

STEP1 Press the [OK/SEL] button and [CBL] button simultaneously for three seconds. The device LED will turn on for 30 seconds. The next step must be performed while the LED is on.

STEP2 Press the [VOL ◄] button. The device LED will blink.

STEP3 Press [TV] button. The device LED will blink twice to confirm the programming.

Note : To return CBL device to CBL volume repeat steps above replacing [TV] with [CBL] in Step 3 .

N. Low Battery Warning

When the batteries are low and need to be replaced with fresh batteries, the Device LED lights will blink 2 times in

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K. Programming Channel Control

You can program the channel controls (Channel Up, Channel Down, Last and Numbers) from one Device to operate in another Device mode. Default channel control settings on the remote control are as follows:

| CBL : CBL | TV : TV | AUD : AUD |
| DVD : DVD | AUX : AUX |

If you wish to store the TV channel controls in TV mode, use the following steps.

STEP1 Press the [OK/SEL] button and [TV] button simultaneously for three seconds. The device LED will turn on for 30 seconds. The next step must be performed while the LED is on.

STEP2 Press the [VOL ◄] button. The device LED will blink.

STEP3 Press [TV] button. The device LED will blink twice to confirm the programming.

Note : To return TV device to CBL channel repeat steps above replacing [TV] with [CBL] in Step 3.

L. Programming a 'Macro' button.

If your remote model has custom-programmable Macro buttons available(See Section 4), they can be programmed to act as a 'Macro' or Favorite Channel button in CABLE mode. This allows you to program up to five 2-digit channels, four 3-digit channels or three 4-digit channels that can be accessed with one button press.

STEP1 Press the [CBL] button to select the CBL mode.

STEP2 Press the [MACRO] button and [OK/SEL] button simultaneously for 3 seconds. The [CBL] button will turn on for 30 seconds.

STEP3 Enter the the 2, 3 or 4-digit code for the channel you want programmed first (for example, 007) using the Number Pad, then press the [STOP] button. Then enter the code for the next channel (for example, 050), then press the [STOP] button. Repeat this process for the third channel. The [CBL] button will blink once for each channel entered.

STEP4 Press the [CH ▲] button to store the channels that were selected. The [CBL] button will blink twice to confirm the storage of commands.

To access the programmed channels, press the [MACRO] button once. This will bring up the first channel. Press once again and it will bring up the second channel. Press again and it will bring up the third channel.

M. RF Setting Method.(RF Frequency: 418Mhz)

STEP1 After installing the MRF-250C, press the [CBL] and [LIST] button simultaneously for 3 seconds. The [CBL] device LED will turn on indicating that it is ready to be programmed. The LED will remain on for 30 seconds.

STEP2 Enter the 2-digit ID number assigned to your MRF-250C ID #. (00–09, A : 10, B : 11, C : 12, D : 13, E : 14, F : 15)

STEP3 Once you have completed RF ID setting, Store the 2-digit number by pressing the [CBL] button once again. The [CBL] device LED will blink twice to confirm that the RF ID number has been stored.

Note : Install and select the ID # on the MRF-250C. (For further details, refer to the MRF-250C manual.) You can operate up to 15 different equipment locations, each with an MRF-250C unique Receiver ID #.

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sequence whenever a [POWER] button is pressed to turn on equipment.

O. Memory Lock System

This remote control is designed to retain programmed memory for 10 years even after batteries are removed from the remote control.

P. Record Your Component Set-up Codes

TV   Set-up Code Number: ☐☐☐
AUD   Set-up Code Number: ☐☐☐
DVD   Set-up Code Number: ☐☐☐
AUX   Set-up Code Number: ☐☐☐

For additional information about your remote control, go to www.universalremote.com

Q. Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for aClass B digital device, pursuant to part 15 of the FCC Rules. These limits aredesigned to provide reasonable protection against harmful interference in aresidential installation. This equipment generates, uses and can radiate radiofrequency energy and, if not installed and used in accordance with the instruc-tions, may cause harmful interference to radio communica-tions.

However, there is no guarantee that interference will not occur in a particularinstallation. If this equipment does cause harmful interference to radio or tele-vision reception, which can be determined by turning the equipment off andon, the user is encouraged to try to correct the interference by one more of thefollowing measures:

◆ Reorient or relocate the receiving antenna.
◆ Increase the separation between the equipment and receiver.
◆ Connect the equipment into an outlet on a circuit different fromthat to which the receiver is connected.
◆ Consult the dealer or an experienced radio/TV technician for help.

Warning!

Changes or modifications not expressly approved by the manufacturer couldvoid the user's authority to operate the equipment.

Note : The manufacturer is not responsible for any Radio or TV interferencecaused by unautho-rized modifications to this equipment. Such modificationscould void the user's authority to operate the equipment.

FCC Caution

This device complies with Part 15 of the FCC Rules. Operation is subject to thefollowing two conditions: (1) this device may not cause harmful interference,and (2) this device must accept any interference received, including interferencethat may cause undesired operation.

Any changes or modifications not expressly approved by the party responsiblefor compliance could void the authority to operate equipment.

The antenna(s) used for this transmitter must not be co-located or operating inconjunction with any other anten-na or transmitter.

⑥ Quick Set-up Code Tables

TV

Quick Number	Manufacturer/Brand
0	SANYO
1	SONY
2	SAMSUNG
3	LG
4	TOSHIBA
5	PANASONIC
6	PHILIPS
7	HITACHI
8	SHARP
9	VIZIO

AUDIO

Quick Number	Manufacturer/Brand
0	ROTEL
1	DENON
2	YAMAHA
3	MARANTZ
4	SONY
5	INTEGRA
6	HARMAN KARDON
7	PIONEER
8	ONKYO
9	LEXICON

DVD

Quick Number	Manufacturer/Brand
0	HITACHI
1	SONY
2	PHILIPS
3	SAMSUNG
4	PHILIPS MAGNAVOX
5	PANASONIC
6	LG
7	JVC
8	DENON
9	PIONEER

AUX

Quick Number	Manufacturer/Brand
0	BOSE
1	HP
2	APPLE / iPod
3	APPLE / iPod
4	MICROSOFT / XBOX
5	SONY / PS2
6	LUTRON
7	X-10
8	X-10
9	MICROSOFT / XBOX

⑦ Set-up Code Tables

CBL-CABLE Converters

Manufacturer/Brand	Set-up Code Number
CISCO/SA	001 003 041 042 045 046
PIONEER	101 103 034 051 063 076 105
PACE	001 005 002
SAMSUNG	001 030
MOTOROLA	002 111 148
CE-LABS	164
DIGEO	153
EVOLUTION FTA	158
GENERAL INSTRUMENT	005 103 104
HAMLIN	049 012 046
HITACHI	103 055
JERROLD	005 004 103 005 003 008 009 010 069
MAGNAVOX	010 012
MEMOREX	052
MOXI	111 252 153
NFUSION	192
PANASONIC	044 047
PHILIPS	006 012 013 020 085
PULSAR	052
RCA	047
REGAL	049 050
REGENCY	057
SKY	230 204
SONY	108
SPRUCER	047
TELNET	334
TOCOM	029 040 056
TOSHIBA	052
VIEWSTAR	012 015
ZENITH	052 060 093 100

TV

Manufacturer/Brand	Set-up Code Number
A MARK	112 143
ABEX	025
ACCURIAN	036
ADMIRAL	072 251 333
ADVENT	247 388
ADVENTURA	002
AIKO	103
AKAI	116 146 248 404 405 473 475 323 387 391 615
ALBATRON	017
ALERON	028
AMERICA ACTION	043
AMPRO	073
AMSTRAD	052
ANAM	043 054 056 080 112
AOC	116 363 112 058 616
APEX	579
APEX DIGITAL	566
AQUAVISION	573 574
ASTAR	477
AUDIOVOX	076 454 388
AVENTURA	052
AVION	441
AXION	039
BELCOR	116
BELL&HOWELL	333 072
BENQ	423 600
BOXLIGHT	266
BRADFORD	043

TV

Manufacturer/Brand	Set-Up Code Number
BROCKWOOD	116
BROKSONIC	238
BYDESIGN	031 032
CANDLE	116 002 003 363
CAPEHART	058
CARY AUDIO DESIGN	266
CELEBRITY	001
CENTURION	116
CETRONIC	043
CHANGHONG	047
CITIZEN	116 002 003 363 043 258 103 143
CLARION	043
CLASSIC	043
CLP CLASSIC	333
COLORTYME	116
CONCERTO	363
CONCIERGE	073
CONTEC	043 050 051
CORNEA	116
CORONADO	143
CRAIG	043 054
CROSLEY	164
CROWN	043 143
CURTIS MATHES	116 258 363 143
CXC	043
CYBERHOME	015
DAEWOO	363 016 043 044 076 103 114 125 127 143
DAYTRON	363 143
DELL	520 164 363 618
DIGITAL PROJECTION	570
DIMENSIA	333
DREAMVISION	235
DUKANE	011 025
DUMONT	116 073
DURABRAND	096 052
DWIN	257
DYNASTY	043
DYNEX	400
EIKI	187
ELECTROBAND	001
ELECTROGRAPH	466
ELECTROHOME	143 024 076 196
ELEKTRA	072
ELEMENT	363 494 526 622
EMERSON	238 043 043 155 005 116 363 047 050 051 076 096 143 153 154 052 514
ENVISION	116
EPSON	324 590
ESA	323
FISHER	007 057
FUJITSU	246 198 410
FUNAI	028 043 052
FUTURETECH	043
GATEWAY	242 268
GE	073 116 008 009 034 056 074 155 333 363
GEM	391
GIBRALTER	116 073
GO VIDEO	026
GOLDSTAR	116 363 116 102 363 106 112 127 143
GRUNPY	028 043
HAIER	363 501 623
HALL MARK	363
HANNSPREE	349 381

TV

Manufacturer/Brand	Set-Up Code Number
HARLEY DAVIDSON	028
HARVARD	043
HAVERHY	081
HELLO KITTY	076
HIMITSU	043
HISENSE	419 442 619
HITACHI	011 166 009 010 012 023 075 143 158 073 363 250 587 613
HP	378 316 327 421
HUMAX	518
HYPERION	609
HYUNDAI	337 338
ILO	472 399
INFINITY	164
INFOCUS	333 230 547 548 470 532 564 595
INITIAL	035 282
INSIGNIA	350 400 052 164 403 454 457 604 617
INTEQ	073
JANEIL	002
JBL	164
JCB	001
JCPENNEY	024 116 008 009 030 065 258 143 333 363
JENSEN	013
JVC	038 034 001 083 199 210 533 581
KAWASHO	116 001
KEC	043
KENWOOD	116 001
KLEGG	466
KLOSS	002 059
KMC	143
KONKA	457
KREISEN	530
KTV	043 116 143 154
KURAZAI	072
LG	363 113 116 102 106 112 127 143 569 284
LITEON	268
LODGENET	072
LOEWE	164
LOGIK	072
LUXMAN	363
LXI	166 007 138 052 251 333 164
MAGNAVOX	164 059 116 003 060 061 363 127 022 333 094 226 390 467 431
MAJESTIC	333 072
MARANTZ	116 164 281 562 584
MATSUI	164
MATSUSHITA	080
MAXENT	242
MEGATRON	116 011
MEMOREX	007 072 363
MGA	116 363 024 028 042
MIDLAND	333 072
MINTEK	362
MINUTZ	008
MISAKAI	052
MITSUBISHI	124 109 024 028 040 042 146 363 348 450
MONIVISION	017
MONTGOMERY WARD	333 072
MOTOROLA	081
MTC	116 363 258
MULTITECH	043

TV

Manufacturer/Brand	Set-Up Code Number
NAD	138 025
NEC	272 197 134 116 040 016 024 056 019 262 236 281 575
NET TV	242
NEXUS	620
NIKEI	043
NIKKO	116
NIKO	527
NORCENT	390
NORWOOD MICRO	027
NTC	103
NUVISION	351 567
OLEVIA	432 363 333
ONKING	043
ONWA	043
OPTIMUS	025
OPTOMA	265 249
OPTONICA	019 251
ORION	096
PANASONIC	080 034 056 164 208 359 552 524 607
PHILCO	116 003 059 060 164 363 024 056
PHILIPS	164 005 093 038 116 003 363 059 127 206 431 333 161 594
PILOT	116
PIONEER	234 135 025 018 023 116 393 272 520 582
POLAROID	388 323 328 353 354 355 356 494 387 391 505 506 508
PORTLAND	363 143
PRINCETON	004
PRISM	034
PROSCAN	333
PROTON	363 112 058 143 171 172 033 528
PROTRON	392 398 498 499 500
PROVIEW	494
PROX	572
PULSAR	116 073
QUASAR	034 056 606
RADIO SHACK	019 363 143 043 127
RCA	333 065 116 363 024 056 152 023 074 161 588
REALISTIC	007 019 043 047
REVOLUTION HD	466
RUNCO	013 073 395 416 072 342
SAMPO	116 058 363 242
SAMSUNG	258 050 089 105 363 127 143 333 228 229
SAMSUX	116
SANSEI	076
SANSUI	096 400 615
SANYO	166 007 020 053 057 082 187 511 266
SCEPTRE	276
SCOTCH	116
SCOTT	028 043 048 143 363 497
SEARS	030 363 007 028 057 143 094 333 082 166 138
SELECO	205 011
SHARP	251 019 014 028 029 363 022 143 175 308
SHENG CHIA	081
SHERWOOD	349
SHOGUN	116
SIGNATURE	072
SIMPSON	003
SONY	001 608
SOUNDESIGN	028 363 003 043

TV

Manufacturer/Brand	Set-Up Code Number
SOVA	041
SOYO	528
SPECTRICON	112
SPECTRONIQ	499 500
SQUAREVIEW	052
SSS	363 043
STARLITE	043
SUNBRITE TV	605
SUPERSCAN	052 081
SUPRA	116
SUPRE MACY	002
SUPREME	001
SVA	328
SYLVANIA	116 003 052 059 060 164 044 333 127 514 593
SYMPHONIC	052
SYNTAX OLEVIA	432 363 333
TANDY	251
TATUNG	056
TECHNICS	034 080
TECHNOL ACE	028
TECHVIEW	045 557
TECHWOOD	363
TEKNIKA	002 003 363 024 028 043 072 258 143
TELEFUNKEN	037 046 615
TELERENT	072
TERA	172
THOMSON	049 055
TMK	363
TMCI	073
TOSHIBA	138 030 007 040 258 325 230
TOTEVISION	143
TRUTECH	529
TVS	096
UNIVERSAL	008 009
VICTOR	076
VIDEO CONCEPTS	146
VIDIKRON	174 164 188 192 342
VIDTECH	363
VIEWSONIC	242 389
VIKING	002
VIORE	472 592
VISCO	526
VITO	363
VIZIO	386 387 624 625
WESTINGHOUSE	076 276 435 001
WINBOOK	339
YAMAHA	116 363
ZENITH	363 073 072

TV-LCD & Plasma TVs

Manufacturer/Brand	Set-Up Code Number
ACCURIAN	036
ADVENT	247 388
AKAI	404 405 473 475 323 387 391 615
AOC	116 363 616
APEX	572
APEX DIGITAL	006
AQUAVISION	573 574
ASTAR	477
AUDIOVOX	454 388 016
AVION	441
AXION	039
BENQ	600
CHANGHONG	247
CYBERHOME	015
DAEWOO	076 363
DELL	320 164 363
DURABRAND	052
DWIN	257
DYNEX	400
ELECTROGRAPH	466
ELEMENT	363 494 526 622
EMERSON	514 363 076 052
ESA	323
FUJITSU	246 198
FUNAI	052
GATEWAY	242 268
GO VIDEO	026
HAIER	363 501 623
HANNSPREE	349 381
HISENSE	419 442 619
HITACHI	011 363 613
HP	378 316 327 421
HUMAX	518
HYPERION	609
HYUNDAI	337 338
ILO	472
INFOCUS	547 470
INITIAL	035 282
INSIGNIA	350 400 052 164 403 454 457 604 617
JVC	038 210 581
KLEGG	466
KONKA	457
KREISEN	530
LG	363 569 113 116 284
LITEON	268
LOEWE	164
MAGNAVOX	164 363 226 390 467 431
MARANTZ	116 164 281
MAXENT	242
MINTEK	362
MITSUBISHI	124 363
NEC	272 262 575
NEXUS	620
NIKO	527
NORCENT	390
NORWOOD MICRO	027
NUVISION	351 567
OLEVIA	432 363 333
PANASONIC	080 164 208 552 524
PHILIPS	164 363 161 594
PIONEER	234 135 393 272 520
POLAROID	388 323 328 353 356 494 387 391 505 506
PRINCETON	004
PROTON	033 528
PROTRON	392 398 498 499 500
PROVIEW	494
PROX	572
RCA	333 363 161 588
REVOLUTION HD	466
RUNCO	395 416
SAMPO	363 242
SAMSUNG	258 228 229
SANSUI	096 400 615
SANYO	166 007
SCEPTRE	276
SHARP	251 363
SHERWOOD	349
SIM2	001
SOVA	041
SOYO	528 033
SPECTRONIQ	499 500
SUNBRITE TV	605
SVA	328
SYLVANIA	052 164 333 514
SYMPHONIC	052
SYNTAX OLEVIA	432 363 333
TATUNG	056
TECHVIEW	045 557
TELEFUNKEN	615
TOSHIBA	138 258 325
TRUTECH	529
VIEWSONIC	242 389
VIORE	472 592
VISCO	526
VITO	363
VIZIO	386 387 624 625
WESTINGHOUSE	076 276 435 001
WINBOOK	339
YAMAHA	116 363
ZENITH	363 073 072

TV-Projection TVs

Manufacturer/Brand	Set-Up Code Number
AKAI	404 405 473 475
DAEWOO	076
EPSON	324
HITACHI	011
HP	378
INFOCUS	333 548
JVC	038
LG	363
LOEWE	164
MAGNAVOX	164 333
MITSUBISHI	109
OPTOMA	265
PANASONIC	080 524
PHILIPS	164 431
RCA	333
SAMSUNG	258
SANYO	166 007 187
SHARP	251
SONY	001
TOSHIBA	138
ZENITH	363 073 072

TV-Projectors

Manufacturer/Brand	Set-Up Code Number
BENQ	423
BOXLIGHT	266
DELL	618
DIGITAL PROJECTION	570
DREAMVISION	235
EPSON	570
FUJITSU	410
HITACHI	170
INFOCUS	230 532 564 595
JVC	199 533
KNOLL SYSTEMS	230
MARANTZ	281 562 584
MITSUBISHI	348
NEC	236 281
OPTOMA	249
PANASONIC	359 607
RUNCO	342 182
SANYO	511 266
SELECO	205
SHARP	308
SIM2	205
TOSHIBA	230
VIDIKRON	342 174 188 192
YAMAHA	370

AUDIO

Manufacturer/Brand	Set-Up Code Number
ADCOM	082 092 225 161 269 356
AIWA	018 104 202 203 213 211 188
AKAI	189
ANTHEM	335 337
ARAGON	687
ARCAM	141 077
ATLANTIC TECHNOLOGY	342
AUDIO FILE	071
B & K	096 097
BOSE	070 224
BOSTON ACOUSTICS	447
CAMBRIDGE AUDIO	684
CARVER	006 028 061 071 201 214 226 185 013 077 284
CARY AUDIO DESIGN	378
CITATION	148
CLARION	026
DENON	109 215 230 234 330 340 679 569 774
DIGITAL PROJECTION	660
DVICO	570
ELAN	057 290
ENLIGHTENED AUDIO	099 098
ESCIENT	451
FISHER	214 182
FLEXTRONICS	378
FOSGATE AUDIONICS	148 342
GOLDSTAR	008
HARMAN KARDON	148 233 077 028 118 318
HITACHI	120
INTEGRA	275 017 046 108 080 209 381
JAMO	399
JCPENNEY	216
JVC	163 191 114 279 291
KENWOOD	026 066 145 192 182 005 280 374
KLEGG	686
KLH	331
KLIPSCH	247
KOSS	216
KRELL	072 384 672
LEXICON	120 235 236 237 357 360
LINN	124 377
LUXMAN	009 139 052 165 115 004
MAGNAVOX	086 164 152 077
MARANTZ	006 028 031 040 063 185 186 265 289 492 172 719
MCINTOSH	238 286 311
MERIDIAN	100 012 013 628
MITSUBISHI	242 204
MONDIAL	157 158 042 043 081 112
MYRYAD	077
NAD	186 113
NAKAMICHI	040 244 245 172 183 287
NEC	176
NILES	403
ONKYO	275 017 046 108 080 209 381
OPTIMUS	016 047
OUTLAW	342
PANASONIC	032 195 219 177 292 626
PARASOUND	129 130 132 261 294 295 333 334
PHILIPS	249 250 063
PROCEED	144 268
RCA	010 048 117 156 067 288
REALISTIC	073 077 035 095
ROTEL	074 083 085
SAMSUNG	016
SANSUI	040 048 110 063 065 228
SANYO	214
SCOTT	013
SHARP	026 094 175
SHERWOOD	024 102 106 447 370
SONY	001 018 247 248 166 101 184 218 271 560 612
SOUNDESIGN	036
SUNFIRE	344 345 182
TEAC	005 019 049 040 212 217
TECHNICS	122 176 193 219 178 177 200 257 262
THETA DIGITAL	136
TOSHIBA	060 087 198 278
TOSHIBA	026 253 169 067 173 205 264 232 089 264 274 715 717 644 695 738 756
ZENITH	143 210

DVD

Manufacturer/Brand	Set-Up Code Number
ACCURIAN	003 268
ADCOM	157
ADVENT	005
AIWA	146
AKAI	281
ALLEGRO	098
ALPINE	098
AMW	006 007
APEX DIGITAL	087 111 115
ARCAM	122
ASPIRE DIGITAL	008 009
AUDIOVOX	003 010 014 015 149
BEL CANTO DESIGN	216
BLAUPUNKT	111
BROKSONIC	130
BUFFALO	264
CALIFORNIA AUDIO LABS	021 124
CAMBRIDGE AUDIO	043
CARY AUDIO DESIGN	174 266
CENTRIOS	019
CINEVISION	091
CITIZEN	020
COBY	260
CYBERHOME	271
DAEWOO	132
DENON	080 173 138 329
DIAMOND VISION	030 038 039
DISNEY	040 096
DURABRAND	091
DVD 2000	017
EMERSON	091 143
ENTERPRISE	114
ESA	022 143
FISHER	147
FUNAI	143
GATEWAY	222
GE	027 307
GO VIDEO	137 091 220 221 222
GOLDSTAR	091
GPX	044 045
GRADIENTE	021
GREENHILL	111
GRUNDIG	083
HARMAN KARDON	084 140
HITACHI	101
HITEKER	087
ILO	268
INITIAL	111
INSIGNIA	143 292 297 091 096 349
INTEGRA	142 180 280 273 338
JATON	046
JBL	084
JSI	047
JVC	012
JWIN	048 050
KAWASAKI	149
KENWOOD	155
KISS	573
KLH	135
KONKA	051 052 054 055
KOSS	047 058 059
KREISEN	060
KRELL	104
LASONIC	061 062
LEXICON	148
LG	091 057 074 350
LITEON	264 265 268
LOEWE	063
MAGNAVOX	066 096 282
MALATA	267
MARANTZ	266 091 282
MCINTOSH	153
MEMOREX	040 096 163
MERIDIAN	153
MICROSOFT	027 206
MINTEK	011 082
MITSUBISHI	017
MYRYAD	102 134
NAD	088 353
NAKAMICHI	103
NESA	111
NEUNEO	067
NEXXTECH	069
NORCENT	005 006 007 069 071 072 073
ONKYO	076 141 180 273 338
OPPO	266 341
OPTIMUS	023
ORION	130
ORITRON	058
PANASONIC	144 150 285 138 021 346 347
PARASOUND	245
PHILIPS	066 276 317 344
PHILIPS MAGNAVOX	141 066
PIONEER	023 099 131 304 357 163
POLAROID	233 284 295 297
POLK AUDIO	141 066
PRESIDIAN	003 096
PRIMA	005
PRINCETON	078
PROCEED	027
RCA	022 307
RIO	091
RJTECH	269
ROTEL	204
SAMPO	081 082 085
SAMSUNG	030 165 137 159 275
SANSUI	154
SANYO	147
SEARS	130
SENSORY SCIENCE	222
SHARP	094
SHERWOOD	245 345
SHINSONIC	033
SONIC BLUE	091
SONY	001 033 145 191 286 241 242 243 340 343 351
SPECTRONIQ	310
SUNGALE	090 223
SUPERSCAN	143
SVA	092 093
SYLVANIA	143
SYMPHONIC	143
TAG MCLAREN	156
TATUNG	102
TEAC	023 270
TECHNICS	138
TECHWOOD	088
THETA DIGITAL	023
THOMPSON	027
TOSHIBA	130 141 164 188 273
TRUTECH	293
URBAN CONCEPTS	091
US LOGIC	111 282
VENTURER	149
VINC	161 308
X-BOX	027
YAMAHA	089 066 197 138 334
ZENITH	057 074 091

DVD-Blu-ray & HD DVD

Manufacturer/Brand	Set-Up Code Number
DENON	329
INSIGNIA	096 349
INTEGRA	273 338
LG	091 350
MAGNAVOX	096
MARANTZ	332
NAD	353
ONKYO	273 338
OPPO	266 341
PANASONIC	150
PHILIPS	066
RCA	027
SAMSUNG	137 159
SANSUI	154
SONY	145
TOSHIBA	141
YAMAHA	334

DVD-DVD Recorders

Manufacturer/Brand	Set-Up Code Number
GO VIDEO	220 221 222
CYBERHOME	271
ILO	268
KISS	279
LITEON	265 268
MAGNAVOX	096
PANASONIC	138
PHILIPS	317
RCA	309
REPLAY NETWORKS	170
SONY	804 805
SAMSUNG	300
SENSORY SCIENCE	222
SHARP	094
TOSHIBA	188 273

DVD-TV/DVD Combos

Manufacturer/Brand	Set-Up Code Number
AIWA	146
AKAI	281
AUDIOVOX	284
DURABRAND	143
ESA	143
FUNAI	143
INSIGNIA	292 297 143
MAGNAVOX	282
MINTEK	282
ONKYO	552
PANASONIC	516
PHILIPS	690 705
PIONEER	284 295 297
POLAROID	165
POLKAUDIO	685
ROTEL	654
SAMSUNG	551 653
SHARP	652
SONY	317 319 321 322 324
SYLVANIA	143
SYMPHONIC	143
TOSHIBA	130
TRUTECH	293

DVD-TV/DVD/VCR Combos

Manufacturer/Brand	Set-Up Code Number
DURABRAND	143
EMERSON	143
ESA	143
INSIGNIA	143
MAGNAVOX	096
PANASONIC	144
SYLVANIA	143
SYMPHONIC	143
TOSHIBA	164

DVD-DVD/VCR Combos

Manufacturer/Brand	Set-Up Code Number
GO VIDEO	137
PANASONIC	150
PHILIPS	066
RCA	027
SAMSUNG	137 159
SANSUI	154
SONY	145
TOSHIBA	141
ZENITH	091

AUX-DVR(TIVO)

Manufacturer/Brand	Set-Up Code Number
DIRECTV	819
DSTV	787 788 789 800 786
HUGHES	817
HUMAX	817
ICREALTIME	784
MAGNAVOX	782
PANASONIC	096
PHILIPS	790 817 785
RCA	809
SONY	804 805
TIVO	790 817
TOSHIBA	817

AUX-Home Theater Systems

Manufacturer/Brand	Set-Up Code Number
AIWA	699
BOSE	347 409 460
DENON	564
INSIGNIA	589
JAMO	398
KEF	530
KOSS	573
NIRO	343
ONKYO	552
PANASONIC	516
PHILIPS	690 705
PIONEER	513
POLKAUDIO	685
ROTEL	654
SV2000	143
SYLVANIA	143
SYMPHONIC	143
TOSHIBA	130 510
VENTURER	149
VINC	772
VERIS	772

AUX-Lighting Controls

Manufacturer/Brand	Set-Up Code Number
COLORADO VNET	849
LEVITON	850
LIGHTOLIER CONTROLS	848
LITE TOUCH	843 844
LUTRON	839 841 341
RAKO	846 847
X-10	840 842 845

AUX-Tuners & Satellite Radios

Manufacturer/Brand	Set-Up Code Number
ANTEX ELECTRONICS	588
BOSE	532 170
DELPHI	515
NEXUS AUDIO	143
PIONEER	556
RUSSOUND	445
SIRIUS	555 585 767
SONY	380
XM SATELLITE RADIO	515 556
ZEEVEE	611

AUX-iPod Control

Manufacturer/Brand	Set-Up Code Number
APPLE / iPod	824 828
BOSE	827
DENON	830 559
DLO	418
GRIFFIN	835
KENSINGTON	825
MARANTZ	834
ONKYO	833
SONANCE	831

AUX-Media PCs

Manufacturer/Brand	Set-Up Code Number
ACER	820
APPLE TV	836
DELL	820
DENON	830
DLINK	832 838
GATEWAY	820
HAUPPAUGE	821 822
HP	820
KEYSPAN	823
LINKSYS	566
NETGEAR	637
ROKU	565
SILVERSTONE	646
SONY	820
SYABAS	677
TOSHIBA	820
WINBOOK	820

AUX-Gaming Systems

Manufacturer/Brand	Set-Up Code Number
AUDIO AUTHORITY	622
LOGITECH	658
MICROSOFT / XBOX	851
MICROSOFT / XBOX 360	826
SONY / PS2 / PS3	829 498

AUX-Digital to Analog Converter box

Manufacturer/Brand	Set-Up Code Number
CISCO	577
DIGITAL STREAM	609
HOMECAST	576
SCHMARTZ	648
SKARDIN	610
SONY	646 647
ZENTECH	610
ZEEVEE	567