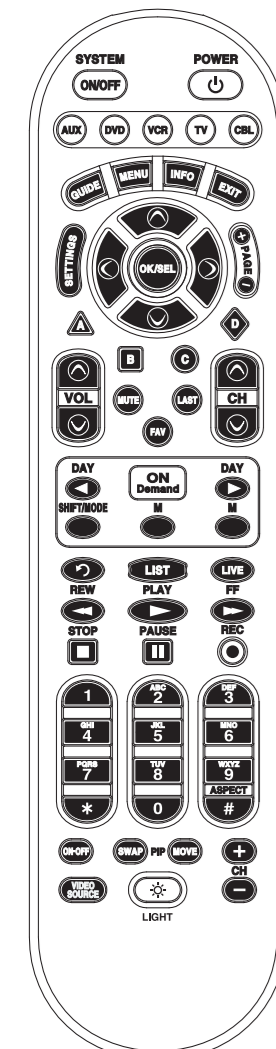


# Operating Instructions For

# CLIKR™-5

# Cable Remote Control

## UR5U-8780L & UR5U-8790L



## 1 Introduction

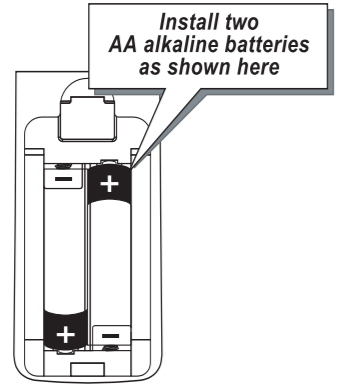
The CLIKR™-5 UR5U-8780L & UR5U-8790L is designed to operate the CISCO / SA, Pioneer, Pace Micro, Samsung and Motorola digital set tops, Plus the majority of TV, VCR, DVD and AUX equipment on the market as shown below.

**CBL** : Cable Set-top Box    **TV** : Televisions  
**VCR** : VCRs and TV/VCRs    **DVD** : DVD Players  
**AUX** : Audio Equipment, Media PC, etc.

## 2 Replacing Batteries

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

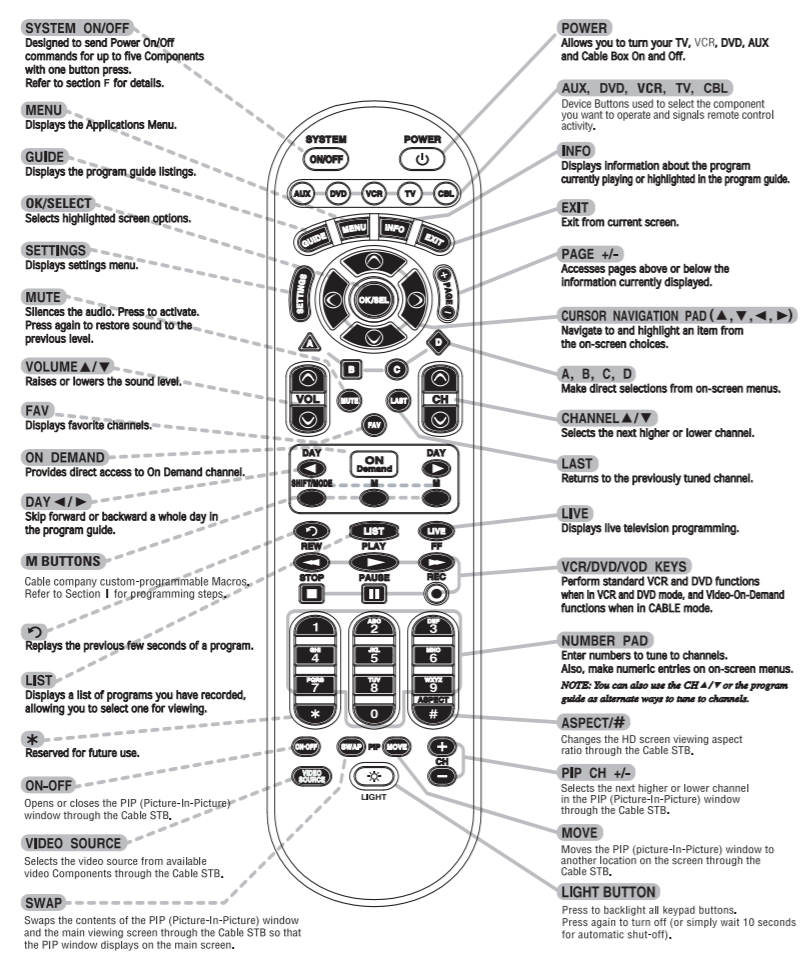
- STEP1** Remove the battery compartment cover on the back of your remote control.
- STEP2** Check battery polarity carefully, and install the batteries as shown in the illustration below.
- STEP3** Replace the battery compartment cover.



## 3 Operations

**DEFAULT STATE:** 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 VCR. Refer to section H 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 ; **VCR:** TV.  
**DVD:** TV ; **AUX:** AUX. You have the option of controlling CABLE Volume and Mute through the TV, VCR or AUX. Refer to section G for programming steps.

## 4 Button Functions



## 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, VCR, DVD or AUX button, depending on what device you are programming the remote to operate.

There are three ways you can program your remote:

- \* Quick Set-Up Method
- \* The Pre-Programmed 3-Digit Code Method
- \* The Auto-Search 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 manufacturer/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.

**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 light 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, VCR, 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, VCR, 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.

## C. Auto-Search Method

- STEP1** Turn on the equipment that you want the remote control to operate (Cable Box, TV, VCR, DVD, etc.).
- STEP2** Press the [INFO] 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.
- 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. 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.
- STEP3** Press the first [DEVICE] button you want to store in the [SYSTEM ON/OFF] button and then press [POWER]. Repeat this for the other components you want to turn on/off with the [SYSTEM ON/OFF] button.

## E. 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, VCR or DVD player. To do this follow the instructions below.
- STEP1** Turn on the 5th device you want to program (TV, VCR, 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 toward the device and enter the 3-digit code number assigned to your brand.
  - 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.

## F. 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 [CBL] button will turn on for 30 seconds.
  - STEP3** Press the [VOL ▼] button. The device LED will blink.
  - STEP3** Press [TV] button. The device LED will blink twice to confirm the programming.

## G. 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    **VCR** : TV  
**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.

## H. 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** : CBL    **VCR** : CBL  
**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.

## I. 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.

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

## K. Memory Lock System

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

## L. Record Your Component Set-up Codes

TV Set-up Code Number: □□□  
 VCR Set-up Code Number: □□□  
 DVD Set-up Code Number: □□□  
 AUX Set-up Code Number: □□□

For additional information about your remote control, go to [www.universallremote.com](http://www.universallremote.com)

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

Quick Number	Manufacturer/Brand
0	DAEWOO
1	DAEWOO
2	DAEWOO
3	DAEWOO
4	DAEWOO
5	DAEWOO
6	DAEWOO
7	DAEWOO
8	DAEWOO
9	DAEWOO

Quick Number	Manufacturer/Brand
0	MITSUBISHI
1	HP
2	PHILIPS
3	JVC
4	SAMSUNG
5	PANASONIC
6	PHILIPS MAGNAVOX
7	TOSHIBA
8	PIONEER
9	LG

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

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	ZINWELL
9	MICROSOFT / XBOX

Manufacturer/Brand	Set-Up Code Number
HITACHI	103 055
JERROLD	005 004 103 005 003 008 009 010 069
MAGNAVOX	010 012
MEMOREX	052
MOXI	111 252 153
INFUSION	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
TENNET	354
TOCOM	039 040 056
TOSHIBA	052
VIEWSTAR	012 015
ZENITH	052 060 093 100

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
ALBATRON	017
ALERION	028
AMERICA ACTION	043
AMPRO	073
AMSTRAD	052
ANAM	043 054 056 080 112
AOC	116 363 112 058
APEX	572
APEX DIGITAL	006
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
BROCKWOOD	116
BROOKSONIC	238
BYDESIGN	031 032
CANOLE	116 002 003 363
CAPEHART	058
CARY AUDIO DESIGN	266
CELEBRITY	001
CENTURION	116
CETRONIC	043
CHANGHONG	247
CITIZEN	116 002 003 363 043 258 103 143
CLARION	043
CLASSIC	043
CLP CLASSIC	333
COLORTYME	116
CONCERTO	363
CONCERGE	073
CONTEC	043 050 051
CORNEA	116
CORONADO	143
CRAIG	043 054

Manufacturer/Brand	Set-Up Code Number
CROSLY	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	320 164 363
DIGITAL PROJECTION	570
DIMESISA	333
DREAMVISION	235
DUKANE	011 025
DUMONT	116 073
DURABRAND	096 052
DWIN	257
DYNASTY	043
DYNEX	400
ERI	187
ELECTROBRAND	001
ELECTROGRAPH	466
ELECTROHOME	143 024 076 196
ELENKA	072
ELEMENT	363 494 526
EMERSON	028 048 043 155 005 116 363 047 050 051 076 096 143 153 154 052 514
ENVISION	116
EPSON	324 590
ESA	323
FISHER	007 057
FUJITSU	246 198 410
FUNAI	028 043 052
FUTURETECH	043
GATEWAY	242 268
GE	113 116 002 363 106 112 127 143
GEM	391
GIBRALTER	116 073
GO VIDEO	026
GOLDSTAR	113 116 102 363 106 112 127 143
GRUNPY	028 043
HAIER	363 501
HALL MARK	363
HANNISPREE	349 381
HARLEY DAVIDSON	028
HARWARD	043
HAVERMY	081
HELLO KITTY	076
HIMITSU	043
HISENSE	419 442
HITACHI	011 166 009 010 012 023 075 143 158 072 363 250
HP	378 316 327 421
HUMAX	518
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
INTEQ	073
JANIEL	002
JBL	164
JCB	001
JCPENNEY	024 116 008 009 030 065 258 143 333 363
JENSEN	013
CLASSIC	038 034 001 083 199 210 533 581
KAWSHO	116 001
KEC	043
KEWOOD	116 001
KLEGG	466
KLOSS	002 059
KMC	143
KNOLL SYSTEMS	230
KONKA	457

## TV

Manufacturer/Brand	Set-Up Code Number
KREISEN	530
KIV	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	323 072
MARANTZ	116 164 281 562 584
MATSUI	164
MATSUSHITA	080
MAXENT	242
MEGATRON	116 011
MEMOREX	007 072 363
MEGA	116 363 024 028 042
MIDLAND	323 073
MINITEK	362
MINUTZ	008
MISAKI	052
MITSUBISHI	124 109 024 028 040 042 146 363 348 450
MONIVISION	017
MONTGOMERY WARD	323 072
MOTOROLA	081
MTI	116 363 258
MULTITECH	043
NAD	138 025
NEC	272 197134 116 040 016 024 056 019 262 236 281 575
NET TV	242
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
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
RADIO SHACK	019 363 143 043 127
RCA	323 065 116 363 024 056 152 023 074 161 588
REALISTIC	007 019 043 047
REVOLUTION HD	466
RUNCO	182 073 395 416 072 342
SAMPO	116 058 363 242
SAMSUNG	258 050 089 105 363 127 143 333 228 229
SAMSUX	116
SAISEI	076

## TV

Manufacturer/Brand	Set-Up Code Number
SANSUI	096 400
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	349
SHERWOOD	349
SHOGUN	116
SIGNATURE	072
SIMPSON	003
SONY	001
SOUNDESIGN	028 363 003 043
SOVA	041
SOYO	528 033
SPECTRION	363 494 526
SPECTRIONQ	499 500
SQUAREVIEW	052
SSS	363 043
STARLITE	043
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
TELERENT	072
TERA	172
THOMSON	049 055
TINK	363
TINCI	073
TOSHIBA	138 030 007 040 258 325 230
TOTEVISION	143
TRUTECH	529
TVS	096
UNIVERSAL	008 009
VICTOR	038
VIDEO CONCEPTS	146
VIDIKRON	174 164 188 192 342
VIDEOTECH	363
NORWOOD MICRO	027
NUVISION	351 567
OLEVIA	432 363 333
PANASONIC	080 164 208 552 524
PHILIPS	164 363 431 161 594
PIONEER	234 135 393 272 520 582
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
YAMAHA	116 363 370
MITSUBISHI	349
YUPITERU	043
YORK	363
ZENITH	363 073 072 095 103
ZONDA	112

## TV-LCD & Plasma TVs

Manufacturer/Brand	Set-Up Code Number
ACCURIAN	036
ADVENT	247 388
AKAI	404 405 473 475 323 387 391

## TV-LCD & Plasma TVs

Manufacturer/Brand	Set-Up Code Number
AOC	116 363
AIPEX	572
APEX DIGITAL	006
AQUAMISION	573 574
ASTAR	477
AUDIOVOX	454 388 076
AVION	441
AXION	039
BEIHO	600
CHANGHONG	247
CYBERHOME	015
DAEWOO	076 363
DELL	320 164 363
DURABRAND	052
DWIN	257
DYNEX	400
ELECTROGRAPH	466
ELEMENT	363 494 526
EMERSON	514 363 076 052
ESA	323
FUJITSU	246 198
FUNAI	052
GATEWAY	242 268
GO VIDEO	026
HAIR	363 501
HAINSPREE	349 381
HISENSE	419 442
HITACHI	011 363
HP	378 316 327 421
HUMAX	518
HYUNDAI	337 338
ILO	472
INFOCUS	547 470
INITIAL	035 282
INSIGNIA	350 400 052 164 403 454 457
JVC	038 210 581
KLEGG	466
KONKA	457
KREISEN	530
LG	363 569 113 116 284
LITEON	268
LOEWE	164 363 226 390 467 431
MAGNAVOX	116 164 281
MAXENT	242
MINITEK	362
MITSUBISHI	124 363
NEC	272 262 575
NIKO	527
NORCENT	390
NORWOOD MICRO	027
NUVISION	351 567
OLEVIA	432 363 333
PANASONIC	080 164 208 552 524
PHILIPS	164 363 431 161 594
PIONEER	234 135 393 272 520 582
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
SANYO	166 007
SELECO	205
SCEPTRE	276
SHARP	251 363
SHERWOOD	349
SONY	001
SOVA	041

## TV-LCD & Plasma TVs

Manufacturer/Brand	Set-Up Code Number
SOYO	528 033
SPECTRIONQ	499 500
SVA	328
SYLVANIA	052 164 333 514
SYMPHONIC	052
SYNTAX OLEVIA	432 363 333
TATUNG	056
TECHVIEW	045 557
TOSHIBA	138 258 325
TRUTECH	529
VIEWSONIC	242 389
VIORÉ	472 592
VISCO	526
VITO	363
VIZIO	386 387
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
HUMAX	333 548
SHINTOM	024
SHOGUN	102
SIGNATURE	034
SINGER	024
SONY	001 057 058 003 053 154 145
SOUNDESIGN	034
SIS	013
SYLVANIA	034 059 067 145
SYMPHONIC	034
COBY	010 034
CYBERHOME	027
DAEWOO	034 039 043
TECHNICS	070 145
DEJON	080 173 138 329
DIAMOND VISION	037 038 039
DISNEY	040 096
DURABRAND	091
TANK	006
TOSHIBA	131 008 059 013 120 817 112
TOTEVISION	101 102
UNITECH	102
VECTOR RESEARCH	012
VICTOR	048
VICTOR	048
VIDEO CONCEPTS	012 034
VIDEOSONIC	102
VILLAIN	034
WARDS	003 013 017 024 034 053 131 145 102
WESTINGHOUSE	024 025
XR-1000	024 034 145
YAMAHA	012 034 039 043
ZENITH	072 080 056 048 101 034 058

## TV-Projectors

Manufacturer/Brand	Set-Up Code Number
BENQ	423
BOXLIGHT	266
DIGITAL PROJECTION	570
DREAMVISION	235
EPSON	590
PIONEER	234 135 393 272 520 582
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
YAMAHA	116 363 370
MITSUBISHI	349
YUPITERU	043
YORK	363
ZENITH	363 073 072 095 103
ZONDA	112

## VCR

Manufacturer/Brand	Set-Up Code Number
ADMIRAL	025 053
ADVENTURA	034
AIKO	117
AINA	034 161
AKAI	016 146 043 124 125
AMERICA ACTION	117
AMERICAN HIGH	145
AMPRO	072
ANAM	145
PHILIPS	067 034 101 071 145 817
PILOT	101
PIONEER	021 013 048
PORTLAND	108
PROTRONIC	102
PROTEC	024
PULSAR	072
QUASAR	108
QUASAR	145
CITIZEN	101 117
COLT	024
CRAG	003 022 102
CURTIS MATHES	145
CYBERNEX	102
DAEWOO	111 116 117 005 010 108 110 120 112
DAYTRON	108
DBX	012 039 043
DYNATECH	034 053
ELECTROHOME	059
ELECTROPHONIC	101
EMERSON	006 029 035 017 025 034 036 037 101 129 131 153
162 116 145	
003 010 008 009	
FISHER	145
FUNAI	034
GARRARD	034
GE	072 144 147 145
GO VIDEO	132 136 155 115 102
GOLDSTAR	101 114 013 012 123
GRADIENTE	034
HARLEY DAVIDSON	034
HARMAN KARDON	012
HARWOOD	024
HITACHI	026 150 034 043 160 013
HUGHES	817
HUMAX	817
HQ	034
INSTANTREPLAY	145
JCL	145
JCPENNEY	012 013 015 101 102
JENSEN	043
JVC	048 043 130 150 012 145
KEC	101
KENWOOD	048 034
KLH	024
KODAK	101 145
LG	101 114 013 012 123
LLOYD	034
LOGIK	024
LXI	034 003 009 017
MAGIN	102
MAGNAVOX	067 034 164 145
MARANTZ	067 012 145
MARIA	101
MATSUSHITA	145
MEI	145
MEMOREX	101 003 010 034 053 072 102 139 145
MEGA	249
MEN TECHNOLOGY	102
MINOLTA	013
MITSUBISHI	059 061 151 013 051
MOTOROLA	053 145
GOLDSTAR	034 102
HARLEY DAVIDSON	034
NEC	012 039 043 048
NIKKO	101
NOBLEX	102

## VCR

Manufacturer/Brand	Set-Up Code Number
NORDMENDE	043
OLYMPUS	145
OPTIMUS	101
OPTONICA	053
ORION	025
PANASONIC	070 145 163 167
PENTAX	013 145
PHILCO	034 067 145
PHILIPS	067 034 101 071 145 817
PILOT	101
PIONEER	021 013 048
PORTLAND	108
PROTRONIC	102
PROTEC	024
PULSAR	072
QUASAR	108
QUASAR	145
MICROSOFT	027 206
MINITEK	111 282
MITSUBISHI	017
MYRIAD	102 134
NAD	088
NAKAMICHI	103
NEA	111
NEUNEO	067
NEXTECH	068
NORCENT	005 006 007 069 071 072 073
ONKYO	076 141 180 273 338 035
OPPO	286 341
OPTIMUS	023
ORION	130
ORITRON	058
PANASONIC	144 150 285 138 021 346 347
PARASOUND	245
PHILIPS	066 276 317 344
PHILIPS MAGNAVOX	141 066 035
PIONEER	023 099 131 304 337
POLAROID	233 284 295 297
POLK AUDIO	141 066 035
PRESIDIAN	003 096
PRIMA	005
PRIMARE	193 194
PRINCETON	078
PROSCAN	027
RCA	027 307
RIO	091
ROTECH	269
ROTEL	204
SAMPO	081 082 085
SAMSUNG	070 165 137 159 275
SANSUI	154
SANYO	147
SEARS	130
SENSORY SCIENCE	222
SHARP	094
SHERWOOD	245 345
SHINSONIC	033
SONIC	