

# RC027 SLx Digital Satellite Remote

Universal Pre-programmed Remote Control



RC027  
27834S+

# USER GUIDE

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## Introduction

The RC027 remote has been designed as a direct replacement for existing digital satellite receiver remote controls (eg Sky™ and Sky+™)\*. All functions are the same and the layout mirrors that of original remotes to make life as easy as possible for the user. The RC027 is fully preprogrammed to operate all digital satellite receivers. The RC027 will also operate the basic functions of many popular TVs, after the correct code has been entered, see "How to set up your RC027" (page 3).

## Installing Batteries

Your RC027 requires 2 fresh AAA-size (LR03) batteries (alkaline batteries recommended) :-














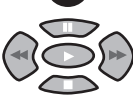










1. Remove the battery cover on the back of your RC027.
2. Insert the batteries ensuring that the polarity corresponds with the markings in the battery compartment.
3. Push the battery cover back in place.

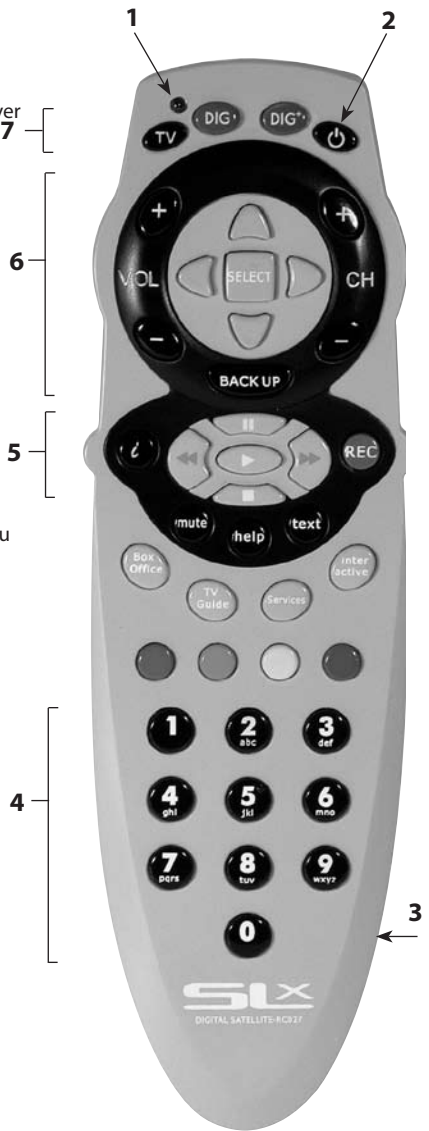
## Please Note

The TV code set-up procedure will cancel itself if no keys are pressed for more than 10 seconds (in order to protect your code against accidental re-programming, and to conserve battery power). Therefore we advise you to read the following instructions and to familiarise yourself with the procedures, before attempting to program your RC027 to operate TV functions.



# Function keys

-  **TV** Sets your RC027 to control your TV
-  **DIG+** Sets the RC027 to control your SKY™ Plus receiver
-  **DIG** Sets the RC027 to control your SKY™ receiver
-  Turns your SKY™ receiver (or TV) on and off
-  **+**
-  **VOL** Changes the TV volume
-  **-**
-  **+**
-  **CH** Changes the channel
-  **-**
-  Arrow buttons move the highlight around menu screens to highlight the option you want  
**SELECT** Chooses the option you have highlighted or confirms your choice
-  **BACK UP** Shows the previous screen
-  Shows information about the program highlighted
-  Controls recording/playback on SKY™+ box includes: Pause, Fast Forward, Play, Rewind and Stop
-  **REC** Records to hard drive on SKY™+ box
-  **mute** Turns the TV sound off/on
-  **help** For help on using the Sky Guide
-  **text** Switches to text mode
-  **Box Office** Shows the Box Office screen
-  **TV Guide** Shows the TV Guide screen
-  **Services** Shows the customer Services screen
-  **Inter active** Shows the interactive Services screen
-  4x colour buttons used to select the corresponding colour option on-screen
-  **2 abc** For selecting channel numbers or on-screen options



1. Blue status indicator LED
2. Power on/off
3. Battery compartment
4. Number keypad
5. SKY™+ recording/playback keys
6. Screen navigation keys
7. Device Indicator keys

## How to set up your RC027

The RC027 has 3 Device Modes (TV, SAT & SAT+)  
The TV section of your RC027 can be set-up either by entering the appropriate codes from the list of codes supplied or by using either the Auto or Manual code search facility.

Instructions for all three methods follow.

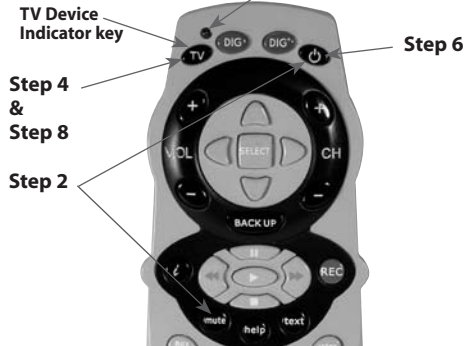
### TV Set up by auto code search

Probably the easiest way to set-up your RC027, especially if there are a lot of codes listed for your particular brand, is by Auto Code Search.

#### TV SETUP BY AUTO CODE SEARCH

1. Turn on your TV using your original handset, or the TV set control.
2. Hold down both **POWER** and **MUTE** keys on your RC027 simultaneously until the STATUS INDICATOR LED lights up and stays blue (about 4 seconds).

Blue Status Indicator



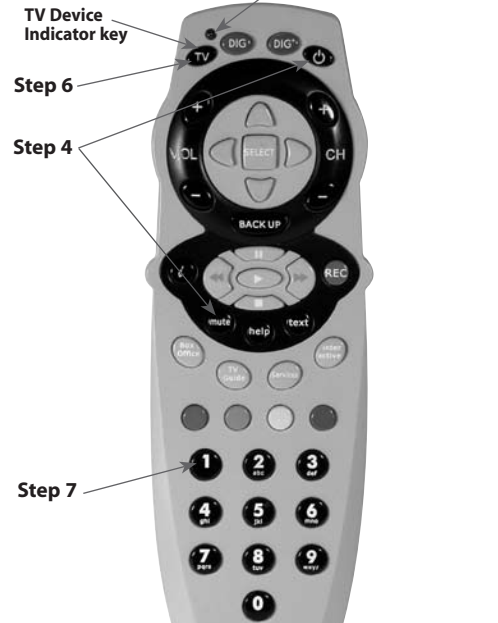
3. Release the **POWER** and **MUTE** keys. The STATUS INDICATOR should still be lit. If not repeat step 2.
4. Press the TV key once. The STATUS INDICATOR and the DEVICE INDICATOR should now both be lit.
5. To search, aim your RC027 at your TV.
6. Hold down the power key for about 8 seconds until the STATUS INDICATOR begins to flash.
7. The STATUS INDICATOR will repeatedly flash twice then remain unlit for 1 second, flash twice and remain unlit for 1 second. The DEVICE INDICATOR key will also flash repeatedly.
8. When a suitable code is found the TV will switch off. When the TV switches off the TV KEY must be pressed **immediately** to store the correct code (Please Note: if the TV KEY is not pressed immediately the search will continue).
9. Now press the POWER key. If the TV switches on the code has been stored and you can check that other functions work properly.
10. To stop the Auto Code Search at any time press any key and the remote will go to Manual Code Search.

If you are unable to find a correct code or cannot store the code fast enough try finding the code either using Manual Code Search or by using Setup by Entering Device Code

## TV Set up by manually entering code

1. Turn on your TV
2. Look up the brand name of your TV in the DEVICE CODE List (See pages 6-8).
3. Look up the 3-digit Device Code next to the brand name of your equipment. If there is more than one code listed for your brand, start with the first code listed and follow the instructions below:
4. Hold down both **POWER** and **MUTE** keys on your RC027 simultaneously until the STATUS INDICATOR LED lights up and stays blue (about 4 seconds).

Blue Status Indicator



5. Release the **POWER** and **MUTE** keys. The STATUS INDICATOR LED should still be lit. If not repeat step 4.
6. Press the TV key once. The STATUS INDICATOR LED and the DEVICE INDICATOR should now both be lit.
7. Use the number keys on your RC027 enter the 3-digit Device Code. If you have entered a valid code, the STATUS INDICATOR will flash once. If you have entered a wrong code, the STATUS INDICATOR will flash twice.
8. Try the keys on your RC027 that correspond to similar keys on your original remote control, especially those you use most. (Note that the RC027 will exit the set-up procedure if you do not press any keys on the RC027 for more than 10 seconds). If your TV works on all or most of the keys on your RC027, you have entered a suitable Device Code. Go to step 11. (Note: Your RC027 will only operate functions controlled by your original remote nor are the supplied codes guaranteed to operate all these functions)

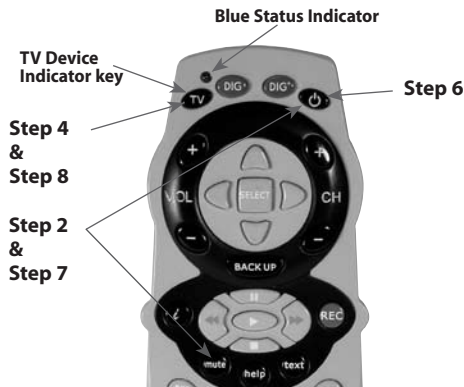
TV Set up by manually entering code continued overleaf

9. If the Device Code does not work properly on your TV, press the TV INDICATOR KEY once. The STATUS INDICATOR LED will flash briefly, and remain lit. The TV INDICATOR key should still be lit. (If either of the indicators switch off whilst you are still programming your RC027, you should start again from step 3.)
10. Repeat steps 7-9 with the other codes listed for your brand of TV until your RC027 operates most or all of the functions that correspond with the keys on your original remote control.
11. Once you have found a suitable code, to store it, press the TV INDICATOR key twice. The TV INDICATOR key will flash twice and then go out as will the STATUS INDICATOR LED.
12. If none of the TV codes listed for your brand of TV work correctly, select the code that provides the best results. Alternatively, try the Library Search method, which is fully explained further on in these instructions.

If you cannot identify a suitable Device Code for your equipment from the Device Code List and have been unable to store a code when using Auto Code Search you may try our library search method. (For many lesser known brands codes may be present but not listed under that brand.) During the search the selected DEVICE INDICATOR will flash at various speeds. The entire search procedure may take several minutes to complete. The following instructions use your television as an example for set-up using the Manual Code Search method.

## TV set up by library search

1. Turn on your TV
2. Hold down both  $\odot$  POWER and  $\times$  MUTE keys on your RC027 simultaneously until the STATUS INDICATOR LED lights up and stays blue (about 4 seconds).



3. Release the  $\odot$  POWER and  $\times$  MUTE keys. The STATUS INDICATOR should still be lit. If not repeat step 2.
4. Press the TV key once. The STATUS INDICATOR and the DEVICE INDICATOR should now both be RED.
5. To search, aim your RC027 at your TV.
6. Press the POWER key repeatedly for 2 seconds ON and two seconds OFF, until your TV goes into standby mode (i.e. the TV switches OFF). Then continue with step 7. If the TV INDICATOR key flashes twice and then goes out

before your TV goes into standby mode you have reached the end of the code library. Return to step 2 and repeat library search one more time.

7. Try the number keypad to see if your device switches ON again and the keys work correctly. If your device does not switch ON, press the  $\times$  Mute key and then the  $\odot$  Power key to repeat the code so that the TV comes ON. Now try the number keypad. (NOTE: If you accidentally skipped a code that turned your TV ON or OFF, you can return to the skipped code by pressing the  $\times$  Mute key.)
8. If the code you have found does not work correctly, make sure that the TV key and STATUS INDICATOR LED are still lit, before you repeat steps 6 and 7 until you find a better code. If the indicator lights have gone out, repeat the set-up procedure from step 2.
9. Once you are happy with the code found, press the TV key once to store the code. The STATUS INDICATOR LED and TV key LEDs will turn off and set-up is complete.

## Operating the RC027

Once you have set up your RC027, it should operate similarly to your original remote control and perform most or all of the main functions. To operate, just aim it at your equipment, press the appropriate DEVICE INDICATOR key and press the required function key. The DEVICE INDICATOR flashes during signal transmission to confirm that a function key is in operation.

Please Note: The RC027 can only duplicate functions that are on your original remote control. Any extra keys on the RC027 which are not on the original will not function.

## TV code recall - 888

The RC027 has a special code which can be entered to find the code that has been set for your TV. (e.g. after Code Search set up)

1. Press  $\odot$  POWER and  $\times$  MUTE keys together until STATUS INDICATOR blue LED lights up and flashes 3 times.
2. Then press the TV key, STATUS INDICATOR LED & TV key will light up Blue.
3. Key in Device Code Recall code 888.
  - To find the first digit of your code, press 1 and then count the number of times the STATUS INDICATOR LED flashes blue.
  - To find the second digit of your code, press 2 and then count the number of times the STATUS INDICATOR LED flashes blue.
  - To find the third digit of your code, press 3 and then count the number of times the STATUS INDICATOR LED flashes blue.

[Note: If the STATUS INDICATOR LED does not flash at all the digit is zero (duration between flashes is 1 sec.)]

E.G. Code=106, Number 1=1 flash, Number 2=no flash, Number 3=6 flashes.

5. Press the TV Device key once to exit Device Code Recall. (Note that the RC027 will exit the Recall procedure if no key is pressed for 30 seconds)

## Recording device codes

It is recommended that you record your device code in case it is lost from storage when the batteries run out or are changed.

### TV DEVICE CODE

## Maintenance

### LOW BATTERY LEVEL

If the indicator flashes twice slowly after pressing a key function, the battery level is low and you will need to fit new batteries. If the batteries are removed, your RC027 will retain its memory for approximately 10 minutes only.

- Do not use old and new batteries together as old batteries tend to leak.
- We do not recommend the use of rechargeable batteries.
- Please follow manufacturer's instructions when disposing of used batteries
- Do not expose the RC027 to dust, strong sunlight, humidity, high temperature or mechanical shock.
- Do not use corrosive or abrasive cleansers on your RC027.
- Keep the unit dust free by wiping it with a soft, dry cloth.
- Do not disassemble your RC027, it contains no user serviceable parts.

## Frequently asked questions

- Q. I am unable to program or operate my RC027, but the indicator lights on my RC027 operate correctly.
- A. Check your A/V device. If the device's mains switch is turned off, your RC027 can not operate your device.
- A. Check if the batteries are low and replace the batteries.
- A. If several TV Codes are listed under the brand name of your A/V device, try each code one by one until most or all of the keys work correctly.
- Q. The STATUS INDICATOR light does not stay ON when entering set up mode.
- A. Make sure both the POWER and MUTE buttons are pressed simultaneously
- Q. My A/V equipment responds only to some commands.
- A. You may have selected a code for which only some commands work correctly. Try the other codes listed for your brand.
- A. Try the Library Search if you are still unsuccessful.
- Q. Some of my equipment will not work with any of the codes listed.
- A. Try the Library Search function as some more recent codes may be available on the RC027 but have not been listed yet or have not been listed under all applicable brands.

Disclaimer: Whilst we have tried to supply a comprehensive library of codes we cannot guarantee that your RC027 will be fully compatible with all equipment. Some brands, models or functions may not be available in the code library due to differences in operation to your original remote or where the code has not yet been added to the library. The manufacturer cannot accept any liabilities resulting from incorrect use of this product.

## Specifications

Operating system:- Pre-programmed infra-red remote control system.

Compatibility:- Operates most brands of infra-red remote controlled TVs and digital satellite receivers

Power requirement:- 2 x AAA-size alkaline batteries.

Effective range:- 7.65M (25 feet), +/- 25 degrees.

Alkaline battery life:- Normal operation 6 months.

Dimensions:- 199 (L) x 56 (W) x 24 (H) mm.

Weight without batteries:- 105g

## Technical support

**Customer Care Line - Tel: 08457 573 479 (UK only)**

**Technical Support Website: <http://technical.philex.com>**

**Technical Enquiries: [technical@philex.com](mailto:technical@philex.com)**



Waste electrical and electronic products must not be disposed of with household waste.

■ Please recycle where facilities exist.

Check with your Local Authority or Retailer for recycling advice.

TV CODES							
BRAND	CODE	BRAND	CODE	BRAND	CODE	BRAND	CODE
ACTION	049 063 086		196 047 049	CROSLY	049 196 144	FIRST LINE	062 196 139
	090 137 139		057 063 144		114 101 102	FISHER	014 042 045
	196		090 104 114	CROWN	033 063 017		188 113 114
ACURA	017	BEKO	007 289 174		196 146 139		101 111
ADMIRAL	024 033 196		196 220 278		087	FLINT	196
	083 101 102		277 246	CS ELECTRONICS	117	FORMENTI-PHOENIX	101 196
	134 146	BELL&HOWELL	042 146 196	CURTIS MATHES	042 196 063	FORTRESS	063 101 111
ADVENTURA	144	BENCHMARK-			114 137		114 146
ADYSON	063 196	BEAUMARK	063 137 139	DAEWOO	063 160 139	FRONTECH	025 035 064
AGAZI	134		196		143 147 196		139 134
AKAI	010 012 013	BESTAR	196		202 274 017	FUJITSU	033 063 086
	025 028 029	BLACKSTRIPE	042 045 177		115 073 082		114 145 144
	033 039 047		114 137	DAINICHI	117	FUNAI	033 062 063
	063 086 114	BLAUPUNKT	244	DANSAI	063		114 134 144
	117 121 017	BLUE SKY	117 196	DAYTRON	045 063 139		145 066
	132 139 208	BPL	118	DE GRAAF	021 033	GALAXIS	139 083
	114 145 196	BRANDT ELECTRON	090 094 096	DECCA	088 108 109	GBC	024 139
AKIBA	117		249		065 196	GEC	009 020 049
AKURA	196 117 121	BRINKMANN	083	DESMET	196		088
	134	BRIONVEGA	102	DIXI	139 196	GELOSO	025 139 117
ALBA	059 017 083	BRIORRYEGA	101 196	DORIC	103	GENEXXA	117 121 196
	117 121 067	BROKSONIC	033 063 114	DTS	139	GOLDHAND	139
	139 196 266		144 145	DUAL	014 093 117	GOLDSTAR	003 035 049
	164	BROKWOOD	033 063 114	DUMONT	033 063 145		063 026 017
ALLORGAN	062		144 145		078 144 087		086 090 119
ALLSTAR	196	BROTHER	134		101 102 114		134 137 139
AMBASSADOR	145	BRUNS	029 102 101	DUMONT-FINLUX	018		154 196
AMERICAN HIGH	137	BSR	003 062	DYNATECH	033 063 114	GOODMANS	067 139 143
AMSTRAD	058 255 031	BTC	117		145 144		154 196 266
ANGA	145	BUSH	003 025 035	EATON	137		115 129 017
ANGLO	139		059 196 065	ECR	114		164
ANITECH	063 196 134		114 117 121	ELBIT	109 196	GORENJE	188 122
	139		061 142 067	ELCIT	101 087	GPM	117
ANSONIC	139 087		118 266 017	ELECTRATUNE	063	GRANDIN	196 117 139
AOC	063 196		115 164	ELECTROBAND	144	GRAETZ	023 025 027
ARC EN CIEL	090 094	CAMPLE	033 063 114	ELECTROHOME	033 042 049		029 135 152
ARISTONA	110 159 187		144 145		063 114 144		158 161 197
	196	CANDLE	063		145	GRANADA	033 047 086
ARTHUR MARTIN	152 126 132	CAPEHART	086 114 196	ELECTRONICA	237		103 110 067
	135	CAPSONIC	134	ELEKTA	134		070 196
ASA	104 101 078	CARREFOUR	196	ELEKTRONSKA	196	GRUNDIG	033 092 078
	102	CDMARCY'S	114	ELIN	196 104 154		081 195 244
ASBERG	176	CENTURION	196	ELITE	137 042 196		261 120
ASORA	139	CENTURY	101 102 188		063 114 117	HALIFAX	134
ASUKA	117 134 121	CGE	188 083	ELMAN	087	HALLMARK	033 063 104
ATLANTIC	196	CIE	058 143	ELTA	139		114
ATORO	139	CIHAN	109	EMERSON	033 063 102		144 145
AUDIO TECHNICA	176	CIMLINE	059 139		114 144 145	HANSEATIC	014 139 025
AUDIOSONIC	090 117 196	CIRCUIT CITY	033 063 114	EON	114 137		062 196
	134		144 145	ERRES	110 196	HANTAREX	139
AUDIOVOX	196	CITIZEN	196 063 137	ETRON	041 139	HARLEY DAVIDSON	033 063 114
AUTOVOX	014 101 078	CITY	139	EURO-FEEL	134		137 144 145
BAIRD	208	CLATRONIC	139 087 117	EUROMAN	196 134	HARRAD	033 063 114
BANG & OLUFSEN	101	COLORTYME	137 196	EUROPHON	087 196		144 145
BASIC LINE	117 121 139	COMTEL	109	FENNER	139	HARVARD	033 063 114
	196	CONCORDE	139	FERGUSON	071 078 085		144 145
BAUR	013 014 025	CONDOR	154 196 139		097 285 174	HCM	139 117 134
	029	CONIC	049 063 114		269 251 215	HEATHKIT	144 196
	033 034 045		196		244 249	HEMMERMANN	014
	244 196 139	CONTEC	107 111 114	FIDELITY	014	HIFIVOX	090 094
	144 147 151		139	FINLANDIA	023	HINARI	041 114 117
	153	CONTINENTAL EDIS.	090 094 096	FINLUX	003 018 046		121 132 139
BEC	025 049 086	CORONADO	063		043 104 196		142 154 196
	196	COSMEL	139		078 040 088		208 067 017
BECESE	025 033 045	CRAIG	196		101	HISAWA	117

DEVICE CODES							
BRAND	CODE	BRAND	CODE	BRAND	CODE	BRAND	CODE
HIT	102	KARCHER	216 196		262 001		185 215 217
HITACHI	004 005 009	KATHREIN	122	MAVA	063		249 061
	012 018 020	KENDO	025 059 087	MCMICHAEL	049	NOVA	800
	021 023 025		154 196	MEDIATOR	196	NOVABEAM	196
	033 034 045	KENWOOD	063	MEGATRON	047	OCEANIC	016 023 025
	276 047 049	KLH	033 063 086	MEMOREX	042 134 139		029 033 036
	050 051 052		114 144 145		145		042 062
	053 054 055	KLOSS	137	MEMPHIS	086 139	ONWA	117
	056 057 063	KOLSTER	196	METZ	244 102 101	OPERA	196
	264 043 086	KONKA	117	MGA	145	OPTANKA	146
	090 094 095	KORPEL	196	MIDLAND	063	ORBIT	196
	104 114 060	KORTING	101	MINERVA	244 078	ORION	014 123 033
	125 126 142	KRIESLER	110 159 187	MINOKA	196		058 059 062
	144 175 180	KTV	033 063 114	MITSUBISHI	011 091 101		063 107 108
	196 205 217		145 144		102 103 074		114 130 139
	222 223 225	KUASHO	063 196		113 114 122	ORION	144 145 196
	067 252 260	KUBA ELECTR.	014 033		072 070 142		201 017 031
HORIZONT	196	LENCO	134 139 143	MITSUBISHI	145 151 153		066
HORNYPHON	196		196		163 189 196	OSAKI	086 117
HOSHAI	117	LENOIR	139		221 232 244	OSUME	086 111
HUSPI ELEKTRONIK	083	LEYCO	062 086 134		257 279 280	OTTO VERSAND	003 014 174
HYPER	139		196	MITSUBISHI	281 282 092		025 029 033
HYPSON	196 134	LG	003 035 049		067 131		034 035 045
ICE	117 196 139		063 124 119	MONITOR	137		059 062 244
	134		086 090 026	MOTOROLA	146 196		154 196 090
IMA	033 063 114		134 137 139	MRELLI	101		114 186 139
	144 145		154 196 077	MTC	033 063 137		144 146 147
IMPERIAL	196 025 188		017	MULTISTANDARD	087		151 153
	083 001	LIFETEC	134 139	MULTITECH	025 033 035	OVP	196
INGELEN	135 152 158	LINTON	063 111 114		063 087 114	P.T. ACTRON	109
	161 197		146		188 145 139	PACIFIC	236 237 238
INGERSOL	139	LLOYD'S	033 063 114		144		266
INNO HIT	216 086 117		144 145	MURPHY	266 103	PALLADIUM	025 196 101
	196 139	LOEWE	101 102 153	NAD	114 177		151
INTERBUY	134 139		196 089 091	NAONIS	024	PANAMA	139 134
INTERFUNK	009 015 016	LOGIK	107 108	NATIONAL	155 196	PANASONIC	015 025 037
	025 028 029	LUMA	024 132 196	NEC	114 137		075 116 136
	030 033 041	LUXOR	004 013 023	NECKERMANN	025 033 034		148 150 155
	068 158 090		025 028 029		196 188 101		186 196 198
	101 102 110		033 034 047		102 154 132		290 291 292
	151 152 153		208 068 086		144 147 151		293 294 092
INTERVISION	134 087 117		126 132 171		153		296 128 149
IRRADIO	196 139 117		158	NEI	117 196	PATHE MARCONI	090 094
IST	117 196	LXI	042 146 177	NEW WORLD	117	PAUSA	139
ISUKAI	117 139		196	NEWTECH	139 196	PCE/PEC	042 045 177
ITS	117 139	M. ELECTRONIC	139 196 090	NIKKAI	196 063 086		063 114 137
ITT	024 025 033		104 174		117 134 121		045
	045 218 017	MACYS	063 114	NIKKO	154	PENNEY	137 063
ITT-NOKIA	135 152 158	MAGNADYNE	014 102 087	NISSAN	137	PERFECT	196
	208		101	NOBLIKO	078	PERFORMANCE	107 114 144
	017 077	MAGNAFON	087	NOGAMATIC	090 094	PHILCO	049 196 083
JASON	088	MAGNASONIC	042 063 139	NOKIA	004 009 012		188 101 102
JBL	196		146 154 177		013 015 016		114
JCB	144	MAGNAVOX	049 114 196		022 023 024	PHILIPS	049 115 086
JET POINT	137	MANDOR	134		025 027 028		095 098 101
JUMBOTRONIC	196	MANESTH	134 059 196		029 030 033		109 110 114
JVC	114 121 067	MARK	196		036 038 039		144 147 151
	142 169 176	MATSUI	065 014 035		041 042 045		154 159 187
	193 196		058 059 085		068 110 134		196 216 079
	035		108 067 017		135 137 284		263 077
KAIDO	117 196 121		066 139 031		152 271 212	PHOENIX	101 196
KAISUI	139	MATSUI	142 154 196		158 197 161	PHONOLA	101 110 159
	009 015 016		123 081 228	NORDMENDE	219		187 196
KAPSCH	025 033		231 259 261		015 090 094	PILOT	137
					095 101 174	PIONEER	032 090 095



DEVICE CODES							
BRAND	CODE	BRAND	CODE	BRAND	CODE	BRAND	CODE
PIONEER	217 196	SAISHO	058 059 108	SKY	297		233 249 073
PLANTRON	134 196		031 017 196	SNYDER	196		092
POPPY	139	SAKIO	134	SOLAVOX	041	THORN	020 028 029
PORTLAND	063 144	SALORA	004 208 013	SONITRON	045		030
PRANDONI-PRINCE	024 025		022 023 025	SONOKO	196 134 139		041 044 045
PRIMA	042 196 063		028 029 033	SONOLOR	016		196 049 054
	114 137 139		034 042 152	SONTEC	196		070 046 174
PRINZ	086	SALORA	171 086 126	SONY	112 107 113		088 090 097
PROELCO	196		132 135		114 017 076		107 113 114
PROFEX	035 139	SAMBERS	087		144 069 067		153 138 144
PROFILO	164	SAMPO	063		270	THORN-FERGUSON	071 078
PROFITRONIC	154 196	SAMSUNG	064 106 162	SOUND&VISION	087 117	TMK	137
PROLINE	164		086 140 134	SOUNDESIGN	033 063 114	TOKAI	086 196
PROSCAN	137		137 154 188		137 144 145	TOKYO	137
PROTECH	025 087 196		195 196 206	SPECTRA	143	TOSHIBA	042 045 287
	134		216 017 080	SPECTRICIAN	063 196		157 085 114
PROTECH	139	SAMSUX	063	SR2000	042 177		127 137 138
PROTON	063 139	SANSUI	107 137 196	STANDARD	139 117		067 177 288
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