



RCX4 PRE-PROGRAMMED UNIVERSAL REMOTE CONTROL

RC026
RC026SP

USER GUIDE **RCX4**

Philex Customer Careline 08457 573479

A single remote to operate

Televisions

DVD Players

Video Recorders

Satellite Receivers including the latest Digital Satellite Receivers

Cable Television Boxes

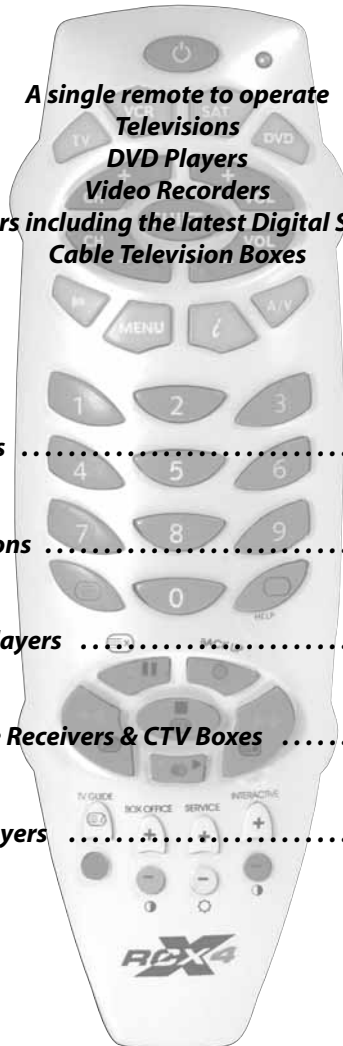
Set up instructions pages 2-5

Codes for Televisions pages 6-9

Codes for Video Players pages 9-11

Codes for Satellite Receivers & CTV Boxes page 11

Codes for DVD Players page 12



MAIN FEATURES

FUNCTION KEYS

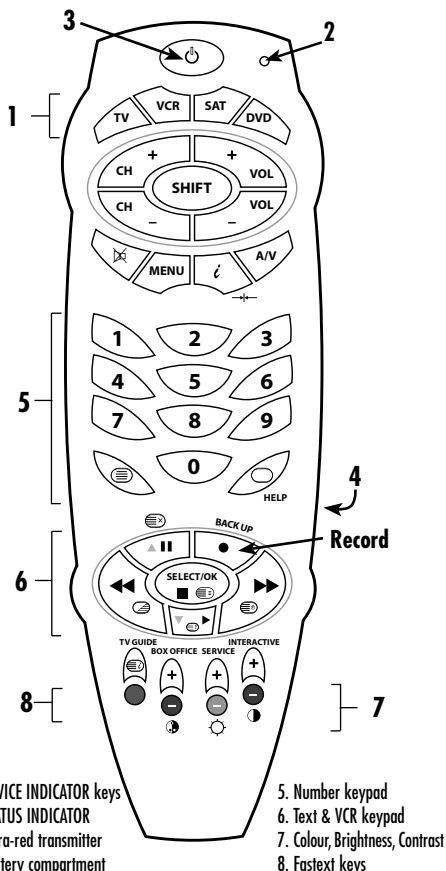
KEY SYMBOL	DESCRIPTION
	POWER ON/OFF
	MUTE
	VOLUME +/-
	CHANNEL +/-, C/P +/-
	CHANNEL 1/2 DIGIT MODE
	A/V SOURCE 1
	INFORMATION/INDEX
	NORMAL
	HELP
	PLAY
	STOP
	PAUSE
	FAST FORWARD (SKY™ MENU RIGHT)
	REWIND (SKY™ MENU LEFT)
	SKY™ MENU UP
	SKY™ MENU DOWN
	RECORD (red circle)
	TELETEXT ON
	TV ON (FROM TEXT TO TV)
	MIX (TV AND TELETEXT COMBINED)
	HOLD PAGE (TELETEXT)
	REVEAL (TELETEXT)
	UPDATE (TELETEXT)
	TIMER (TELETEXT)
	TOP OF PAGE (TELETEXT)
	BOTTOM OF PAGE (TELETEXT)
	FASTEXT RED
	FASTEXT GREEN
	FASTEXT YELLOW
	FASTEXT BLUE
	CHANNEL/PROGRAMME STORE
	CHANNEL/PROGRAMME STORE
	C/P (CHANNEL PROGRAMME)

SHIFT KEY FUNCTIONS

KEY STROKES	FUNCTION
SHIFT	+/- (COLOUR)
SHIFT	+/- (BRIGHTNESS)
SHIFT	+/- (CONTRAST)

SHIFT ①..⑨ Shift 1-9 contain the following groups of functions
 10+, 20+, 30+, 40+ ...
 11, 12, 13, 14, 15 ...

PLEASE NOTE: You are advised to read the following instructions fully, before attempting to program your Universal Remote Control. The 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. It would therefore be helpful to you to understand the required programming steps, before you carry out the actual set-up procedure.



1. DEVICE INDICATOR keys
2. STATUS INDICATOR
3. Infra-red transmitter
4. Battery compartment
5. Number keypad
6. Text & VCR keypad
7. Colour, Brightness, Contrast
8. Fastext keys

RCx4 - UNIVERSAL REMOTE CONTROL

Congratulations! Your Universal Remote Control is a state-of-the-art device, which replaces the main functions of several separate remote controls to operate infra-red controlled televisions (TV), videos (VCR), Freeview™ & satellite receivers (SAT), cable TV boxes (CTV) & DVD players (DVD).

Your Universal Remote Control (URC) is pre-programmed in the factory. Simply enter the correct device codes for your equipment and your URC is ready to use. A DEVICE CODE LIST is included in the user's manual.

INSTALLING BATTERIES

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

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

HOW TO SET UP YOUR RCx4

The RCx4 has 4 Device Modes (TV, VCR, SAT & DVD)

Your RCx4 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.

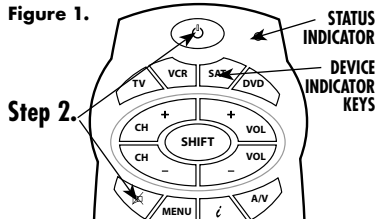
SET-UP BY AUTO CODE SEARCH

Probably the easiest way to set-up your RCx4 for most devices, 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
2. Hold down both  POWER and  MUTE keys on your RCx4 simultaneously until the STATUS INDICATOR LED lights up and stays red (about 4 seconds).

Figure 1.



Step 2.



3. Release the  POWER and  MUTE keys. The STATUS INDICATOR should still be lit. If not repeat step 2.
4. Press the TV DEVICE INDICATOR key once. The STATUS INDICATOR and the DEVICE INDICATOR should now both be lit RED.

Figure 2.



Step 4.

5. To search, aim your RCx4 at your TV.
6. Hold down the power key for about 8 seconds until the STATUS INDICATOR lights up.
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 DEVICE INDICATOR key must be pressed **immediately** to store the correct code (**Please Note:** if the TV DEVICE INDICATOR 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

VCR, SAT/CTV & DVD SETUP BY AUTO CODE SEARCH

Simply turn on your VCR, SAT/CTV or DVD and repeat the above procedure to search for the Device Codes for your VCR, SAT/CTV or DVD but instead of the TV DEVICE INDICATOR key press either the VCR, SAT or DVD DEVICE INDICATOR key in steps 4 & 8.

SETUP BY ENTERING DEVICE CODE

(Note: If no keys are pressed on the RCx4 for a period longer than 10 seconds during set-up, the RCx4 will automatically exit the set-up process and revert to the last entered code. This feature reduces accidental erasure of your codes)

SET UP FOR TV



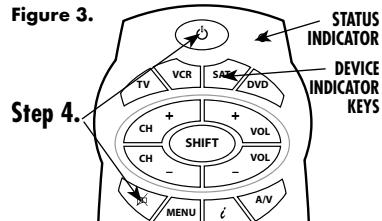
1. Turn on your TV
2. Look up the brand name of your TV in the DEVICE CODE LIST (See pages 7-11).
3. Look up the 3-digit Device Code next to the brand name of your equipment. If there is more than one code listed for your brand, start with the first code listed and follow the instructions below:
4. Hold down both  POWER and  MUTE keys on your RCx4 simultaneously until the STATUS INDICATOR LED lights up and stays red (about 4 seconds).

Figure 3.



Step 4.



5. Release the  POWER and  MUTE keys. The STATUS INDICATOR LED should still be lit. If not repeat step 4.
6. Press the TV DEVICE INDICATOR key once. The STATUS INDICATOR LED and the DEVICE INDICATOR should now both be lit.

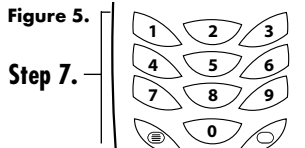
Figure 4.



Step 6.

7. Use the number keys on your RCx4 enter the 3-digit Device Code. If you have entered a valid code, the STATUS INDICATOR will blink once. If you have entered a wrong code, the STATUS INDICATOR will blink twice.

Figure 5.



Step 7.

8. Try the keys on your RCx4 that correspond to similar keys on your original remote control, especially those you use most. (Note that the RCx4 will exit the set-up procedure if you do not press any keys on the RCx4 for more than 10 seconds). If your TV works on all or most of the keys on your RCx4, you have entered a suitable Device Code. Go to step 11. (Note: Your RCx4 will only operate functions controlled by your original remote nor are the supplied codes guaranteed to operate all these functions)
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 RED. (If either of the indicators switch off whilst you are still programming your RCx4, you should start again from step 3.)
10. Repeat steps 7-9 with the other codes listed for your brand of TV until your RCx4 operates most or all of the functions that correspond with the keys on your original remote control.

SETUP BY ENTERING DEVICE CODE *continued*

- 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.
- 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.

SET UP FOR VCR AND SAT

Repeat the same set-up method for your VCR and SAT, but remember to press the VCR, SAT or DVD DEVICE INDICATOR key, and select the corresponding Device Code listing.

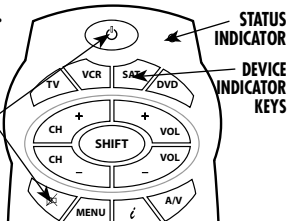
SET-UP BY MANUAL CODE SEARCH

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 SETUP BY MANUAL CODE SEARCH

- Turn on your TV
- Hold down both \odot POWER and \boxtimes MUTE keys on your RCx4 simultaneously until the STATUS INDICATOR LED lights up and stays red (about 4 seconds).

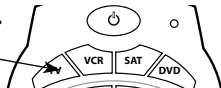
Figure 6.



Step 2.

- Release the \odot POWER and \boxtimes MUTE keys. The STATUS INDICATOR should still be lit. If not repeat step 2.
- Press the TV DEVICE INDICATOR key once. The STATUS INDICATOR and the DEVICE INDICATOR should now both be RED.

Figure 7.



Step 4.

- To search, aim your RCx4 at your TV.
- Press the \odot POWER key repeatedly for 2 seconds ON and 2 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.
- 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 \boxtimes Mute key and then the \odot Power key to repeat the code so that the Device 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 \boxtimes Mute key.)
- If the code you have found does not work correctly, make sure that the TV

INDICATOR 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.

- Once you are happy with the code found, press the TV INDICATOR key once to store the code. The STATUS INDICATOR LED and DEVICE INDICATOR key will turn off and set-up is complete.

VCR/DVD/SAT SETUP BY MANUAL CODE SEARCH

Simply repeat the above procedure to search for the Device Codes for your VCR/SAT/DVD but instead of the TV DEVICE INDICATOR key press either the VCR, SAT or DVD DEVICE INDICATOR key in step 4

OPERATING YOUR RCx4

Once you have set up your RCx4, 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 RCx4 can only duplicate functions that are on your original remote control. Any extra keys on the RCx4 which are not on the original will not function.

SHIFT Functions

To operate a secondary function, press SHIFT followed by the corresponding function key. The SHIFT key remains functional for as long as any other key is operated, or until 5 seconds have elapsed after the last key was pressed. When the SHIFT key is operated, the STATUS INDICATOR lights up green and the DEVICE INDICATOR key red while the SHIFT key is pressed down. The STATUS INDICATOR then stays ON for another 5 seconds. The SHIFT key can be cancelled before the 5 seconds time-out period by pressing the SHIFT key again.

DEVICE CODE RECALL - 888

The RCx4 has a special code which can be entered to find the code that has been set for each device. (e.g. after Code Search set-ups)

- Press \odot POWER and \boxtimes MUTE keys together until STATUS INDICATOR RED LED lights up.
- Then press the required DEVICE INDICATOR key [TV, SAT, VCR or DVD], STATUS INDICATOR LED & DEVICE INDICATOR key will light up RED.
- Key in Device Code Recall code 888 the STATUS INDICATOR RED LED lights up and flashes 3 times.
 - To find the first digit of your code, press 1 and then count the number of times the STATUS INDICATOR LED flashes red.
 - To find the second digit of your code, press 2 and then count the number of times the STATUS INDICATOR LED flashes red.
 - To find the third digit of your code, press 3 and then count the number of times the STATUS INDICATOR LED flashes red.

[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.

- Press Any Device key [TV, SAT, VCR or DVD] once to exit Device Code Recall. (Note that the RCx4 will exit the Recall procedure if no key is pressed for 30 seconds)

KEY RECONFIGURATION - 777

- Press \odot POWER and \boxtimes MUTE keys together until STATUS INDICATOR RED LED lights up.
- If you are reconfiguring a SHIFT Function key, you must next press the SHIFT key and the STATUS LED will change to GREEN.

3. Press the required DEVICE KEY and the DEVICE KEY will light up.
 4. Enter the Key Reconfiguration activation code 777.
 5. Press slowly and repeatedly the key you wish to re-program until your device performs the required/correct function.
- NB During the search, your RCx4 will transmit the code of every key command programmed into the device code you are reconfiguring to find the key function you want. If you reach the end of the command set without finding the required function, the STATUS LED will flash twice red and the RCx4 will exit reconfiguration mode.
6. Press the relevant DEVICE KEY [TV, VCR, SAT, DVD] to store the corrected code. The DEVICE INDICATOR key will flash twice.
 7. Repeat 4 and 5 for any other keys you wish to modify.
 8. Press the relevant Device key 2 times to exit the reconfiguration function.

Please Note:

A maximum of 4 keys can be reconfigured for each Device (TV, VCR, SAT and DVD). After the 4 keys are reconfigured for one Device, if you try to reconfigure a fifth key, the DEVICE INDICATOR key will blink several times and then go out (exiting Reconfiguration Mode).

If no other key is pressed for more than 20 seconds, the RCx4 will automatically exit Reconfiguration Mode.

During key reconfiguration, only the key you are reconfiguring and the DEVICE INDICATOR key will function.

Not all key functions may be relevant to your device or be programmed into the Device code selected. If there are no functions programmed for a particular key instead of the DEVICE INDICATOR key flashing twice it will remain lit for one second and then go out and the RCx4 will exit reconfiguration mode.

You can clear reconfigured codes by entering a new Device code. When a new Device code is entered all Key functions will be reset to the default key settings for the new code including any that may have been previously reconfigured.

RECORDING DEVICE CODES

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

DEVICE KEY	DEVICE	CODE
TV		
VCR		
SAT/CTV		
DVD		

MAINTENANCE

LOW BATTERY LEVEL

If the indicator flashes twice slowly after pressing a key function, the battery level is low & you must fit new batteries. If the batteries are removed, your RCx4 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 manufacturers instructions when disposing of used batteries
- Do not expose the RCx4 to dust, strong sunlight, humidity, high temperature or mechanical shock.
- Do not use corrosive or abrasive cleansers on your RCx4.
- Keep the unit dust free by wiping it with a soft, dry cloth.
- Do not disassemble your RCx4, it contains no user serviceable parts.

FREQUENTLY ASKED QUESTIONS

- Q. I am unable to program or operate my RCx4, but the indicator lights on my RCx4 operate correctly.
- A. Check your A/V device. If the device's mains switch is turned off, your RCx4 can not operate your device.
- A. Check if the batteries are low and replace the batteries.
- A. If several Device 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. Make sure that you have selected the correct device listing
- A. Try the Library Search function as some more recent codes may be available on the RCx4 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 RCx4 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, VCRs, Satellites, Cable boxes and DVD players.

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 Web Site: <http://technical.philex.com>

Technical Web Site Enquiries: technical@philex.com

ENVIRONMENTAL POLICY

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.



DEVICE CODES

BRAND	CODE	BRAND	CODE	BRAND	CODE	BRAND	CODE
TV codes							
ACTION	049 063 086 090 137 139 196	BEC	144 147 151 153 025 049 086 196	CONDOR	154 196 139 049 063 114 196	EUROMAN	196 134 087 196
ACURA	017	BECESE	025 033 045 196 047 049	CONIC	196	FENNER	139
ADMIRAL	024 033 196 083 101 102 134 146	BEKO	090 104 114 007 289 174 196 220 278 277 246	CONTEC	107 111 114 139	FERGUSON	071 078 085 097 285 174 269 251 215 244 249
ADVENTURA	144	BELL&HOWELL	042 146 196	CONTINENTAL EDIS.	090 094 096	FIDELITY	014
ADYSON	063 196	BENCHMARK- BEAUMARK	063 137 139 196	CORONADO	063	FINLANDIA	023
AGAZI	134	BESTAR	196	COSMEL	139	FINLUX	003 018 046 043 104 196 078 040 088 101
AKAI	010 012 013 025 028 029 033 039 047 063 086 114 117 121 017 132 139 208 114 145 196	BLACKSTRIPE	042 045 177 114 137	CRAIG	196	FIRST LINE	062 196 139 014 042 045 188 113 114 101 111
AKIBA	117	BLAUPUNKT	244	CROSLEY	049 196 144 114 101 102 078 063 017 196 146 139 087	FISHER	062 196 139 014 042 045 188 113 114 101 111
AKURA	196 117 121 134	BLUE SKY	117 196	CROWN	033 063 017 196 146 139 087	FLINT	196
ALBA	059 017 083 117 121 067 139 196 266 164	BPL	118	CS ELECTRONICS	117	FORMENTI-PHOENIX	101 196
ALLORGAN	062	BRANDT ELECTRON	090 094 096 249	CURTIS MATHES	042 196 063 114 137	FORTRESS	063 101 111 114 146
ALLSTAR	196	BRINKMANN	083	DAEWOO	063 160 139 143 147 196 202 274 017 115 073 082 117	FRONTECH	025 035 064 139 134
AMBASSADOR	145	BRIONVEGA	102	DANSAI	063	FUJITSU	033 063 086 114 145 144
AMERICAN HIGH	137	BRIORRYEGA	101 196	DAYTRON	045 063 139	FUNAI	033 062 063 114 134 144 145 066
AMSTRAD	058 255 031	BROKSONIC	033 063 114 144 145	DE GRAAF	021 033	GALAXIS	039 083
ANGA	145	BROKWOOD	033 063 114 144 145	DECCA	088 108 109 065 196	GBC	024 139
ANGLO	139	BROTHER	134	DESMET	196	GEC	009 020 049 088
ANITECH	063 196 134 139	BRUNS	029 102 101	DIXI	139 196	GELOSO	025 139 117
ANSONIC	139 087	BSR	003 062	DORIC	103	GENEXXA	117 121 196
AOC	063 196	BTC	117	DOTS	139	GOLDHAND	139
ARC EN CIEL	090 094	BUSH	003 025 035 059 196 065 114 117 121 061 142 067 118 266 017 115 164	DUAL	014 093 117	GOLDSTAR	003 035 049 063 026 017 086 090 119 134 137 139 154 196 266 115 129 017 164
ARISTONA	110 159 187 196	CAMPLE	033 063 114 144 145	DUMONT	033 063 145 078 144 087 011 102 114	GOODMANS	067 139 143 154 196 266 115 129 017 164
ARTHUR MARTIN	152 126 132 135	CANDLE	063	DUMONT-FINLUX	018	GORENJE	188 122
ASA	104 101 078 102	CAPEHART	086 114 196	DYNATECH	033 063 114 145 144	GPM	117
ASBERG	176	CAPSONIC	134	EATON	137	GRANDIN	196 117 139
ASORA	139	CARREFOUR	196	ECR	114	GRAETZ	023 025 027 029 135 152 158 161 197
ASUKA	117 134 121	CDMARCYS	114	ELBIT	109 196	GRANADA	033 047 086 103 110 067 070 196
ATLANTIC	196	CENTURION	196	ELCIT	101 087	GRUNDIG	033 092 078 081 195 244 261 120
ATORO	139	CENTURY	101 102 188	ELECTRATUNE	063	HALIFAX	134
AUDIO TECHNICA	176	CGE	188 083	ELECTROBAND	144	HALLMARK	033 063 104 114
AUDIOSONIC	090 117 196 134	CIE	058 143	ELECTROHOME	063 114 144 145	HANSEATIC	014 139 025
AUDIOVOX	196	CIHAN	109	ELEKTRA	237		
AUTOVOX	014 101 078	CIMLINE	059 139	ELEKTRONSKA	134		
BAIRD	208	CIRCUIT CITY	033 063 114 144 145	ELIN	196 104 154 137 042 196 063 114 117		
BANG & OLUFSEN	101	CITIZEN	196 063 137	ELITE	087		
BASIC LINE	117 121 139 196	CITY	139	ELTA	139		
BAUR	013 014 025 029	CLATRONIC	139 087 117	EMERSON	033 063 102 114 144 145 114 137		
	033 034 045 244 196 139	COLORTYME	137 196	EON	110 196		
		COMTEL	109	ERRES	041 139		
		CONCORDE	139	ETRON	041 139		
				EURO-FEEL	134		

DEVICE CODES

BRAND	CODE	BRAND	CODE	BRAND	CODE	BRAND	CODE
	062 196	ISUKAI	117 139		208 068 086	NEC	114 137
HANTAREX	139	ITS	117 139		126 132 171	NECKERMANN	025 033 034
HARLEY DAVIDSON	033 063 114	ITT	024 025 033		158		196 188 101
	137 144 145		045 218 017	LXI	042 146 177		102 154 132
HARRAD	033 063 114	ITT-NOKIA	135 152 158		196		144 147 151
	144 145		161 171 197	M. ELECTRONIC	139 196 090		153
HARVARD	033 063 114		208		104 174	NEI	117 196
	144 145	ITV	017 077	MACYS	063 114	NEW WORLD	117
HCM	139 117 134	JASON	088	MAGNADYNE	014 102 087	NEWTECH	139 196
HEATHKIT	144 196	JBL	196		101	NIKKAI	196 063 086
HEMMERMANN	014	JCB	144	MAGNAFON	087		117 134 121
HIFIVOX	090 094	JET POINT	137	MAGNASONIC	042 063 139	NIKKO	154
HINARI	041 114 117	JUMBOTRONIC	196		146 154 177	NISSAN	137
	121 132 139	JVC	114 121 067		196	NOBLIKO	078
	142 154 196		142 169 176	MAGNAVOX	049 114 196	NOGAMATIC	090 094
	208 067 017		193 196	MANDOR	134	NOKIA	004 009 012
HISAWA	117	KAIDO	035	MANESTH	134 059 196		013 015 016
HIT	102	KAISUI	117 196 121	MARK	196		022 023 024
HITACHI	004 005 009		139	MATSUI	065 014 035		025 027 028
	012 018 020	KAPSCH	009 015 016		058 059 085		029 030 033
	021 023 025		025 033		108 067 017		036 038 039
	033 034 045	KARCHER	216 196		066 139 031		041 042 045
	276 047 049	KATHREIN	122	MATSUI	142 154 196		068 110 134
	050 051 052	KENDO	025 059 087		123 081 228		135 137 284
	053 054 055		154 196		231 259 261		152 271 212
	056 057 063	KENWOOD	063		262 001		158 197 161
	264 043 086	KLH	033 063 086	MAYA	063		219
	090 094 095		114 144 145	MCMICHAEL	049		
	104 114 060	KLOSS	137	MEDIATOR	196		
	125 126 142	KOLSTER	196	MEGATRON	047		
	144 175 180	KONKA	117	MEMOREX	042 134 139		
	196 205 217	KORPEL	196		145		
	222 223 225	KORTING	101	MEMPHIS	086 139		
	067 252 260	KRIESLER	110 159 187	METZ	244 102 101		
		KTV	033 063 114	MGA	145		
HORIZONT	196		145 144	MIDLAND	063		
HORNYPHON	196	KUASHO	063 196	MINERVA	244 078		
HOSHAI	117	KUBA ELECTR.	014 033	MINOKA	196		
HUSPI ELEKTRONIK	083	LENCO	134 139 143	MITSUBISHI	011 091 101		
HYPER	139		196		102 103 074		
HYPSON	196 134	LENOIR	139		113 114 122		
ICE	117 196 139	LEYCO	062 086 134		072 070 142		
	134		196	MITSUBISHI	145 151 153		
IMA	033 063 114	LG	003 035 049		163 189 196		
	144 145		063 124 119		221 232 244		
IMPERIAL	196 025 188		086 090 026		257 279 280		
	083 001		134 137 139	MITSUBISHI	281 282 092		
INGELEN	135 152 158		154 196 077		067 131		
	161 197		017	MONITOR	137		
INGERSOL	139	LIFETEC	134 139	MOTOROLA	146 196		
INNO HIT	216 086 117	LINTON	063 111 114	MRELLI	101		
	196 139		146	MTC	033 063 137		
INTERBUY	134 139	LLOYD'S	033 063 114	MULTISTANDARD	087		
INTERFUNK	009 015 016		144 145	MULTITECH	025 033 035		
	025 028 029	LOEWE	101 102 153		063 087 114		
	030 033 041		196 089 091		188 145 139		
	068 158 090		107 108		144		
	101 102 110	LOGIK	107 108	MURPHY	266 103		
	151 152 153	LUMA	024 132 196	NAD	114 177		
INTERVISION	134 087 117	LUXOR	004 013 023	NAONIS	024		
IRRADIO	196 139 117		025 028 029	NATIONAL	155 196		
IST	117 196		033 034 047				

TV codes

NORDMENDE	015 090 094
	095 101 174
	185 215 217
	249 061
NOVA	800
NOVABEAM	196
OCEANIC	016 023 025
	029 033 036
	042 062
ONWA	117
OPERA	196
OPTANKA	146
ORBIT	196
ORION	014 123 033
	058 059 062
	063 107 108
	114 130 139
ORION	144 145 196
	201 017 031
	066
OSAKI	086 117
OSUME	086 111
OTTO VERSAND	003 014 174
	025 029 033
	034 035 045
	059 062 244
	154 196 090
	114 186 139
	144 146 147
	151 153
OVP	196
P.T. ACTRON	109

DEVICE CODES

BRAND	CODE	BRAND	CODE	BRAND	CODE	BRAND	CODE
PACIFIC	236 237 238 266		029 030 035 045 058 059		114 197 208 142 188	STERN	025
PALLADIUM	025 196 101 151		062 063 114 244 147 196	SASO	090	SUNKAI	059 062 117
PANAMA	139 134		186 078 144	SBR	110 196	SUNSTAR	139
PANASONIC	015 025 037 075 116 136 148 150 155 186 196 198 290 291 292 293 294 092 296 128 149	QUESTAR	114	SCHAUB LORENTZ	023 025 135 152 158 161 197	SUNWOOD	196
PATHE MARCONI	090 094	R.LINE	196	SCHNEIDER	014 041 159 154 141 093 110 117	SUPREME	144
PAUSA	139	RADIALVA	090	SCOTT	196 134 154 212 187	SUPERTECH	014 139
PCE/PEC	042 045 177 063 114 137 045	RADIOLA	110 159 187	SEARS	042 177	SUTRON	139
PENNEY	137 063	RADIOMARELLI	103 101	SEG	063 087 114 117 139 134	SYLVANIA	111 196
PERFEKT	196	RADIOTONE	134 139 154 196	SEI-SINUDYNE	014 024 025 058 059 062 087 101 102	SYMPHONIC	033 063 114 144 145
PERFORMANCE	107 114 144	RADIX	045	SELECO	024 067 093 113 249	TADISTAR	154
PHILCO	049 196 083 188 101 102 114	RANK	003 025 035 059 266 142 114 117 121 196	SEMUA	063	TANDY	086 117 146 121
PHILIPS	049 115 086 095 098 101 109 110 114 144 147 151 154 159 187 196 216 079 263 077	RCA	137	SENCORA	139	TASHIKO	035 049 114 142
PHOENIX	101 196	REALISTIC	042	SENTURA	041 117	TATUNG	048 057 086 107 109 065
PHONOLA	101 110 159 187 196	REDIFFUSION	103	SHARP	063 111 113 114 142 146 067 214 002 256 156 069	TEC	143 139
PILOT	137	REDIFUSION	103	SHINTOM	144 154	TECHLINE	087
PIONEER	032 090 095 217 196	REVOX	196	SHORAI	062	TECHNICS	155 196
PLANTRON	134 196	REX	025 249 093	SIAREM	087 101 102	TECHNIMAGEN	236
POPPY	139	RFT	102 101	SIEMENS	021 063 244 111 196 110 159 187	TECHWOOD	137 144
PORTLAND	063 144	RICE CLUB	137	SIERA	196	TECNISON	154
PRANDONI-PRINCE	024 025	RMB	063	SIGMARA	137	TEKNIKA	063 137 145
PRIMA	042 196 063 114 137 139	ROADSTAR	117 134 139 017	SIGNATURE	144	TEKON	137 139
PRINZ	086	RUNCO	137	SILVER	114 117	TELEAVIA	090 094 099
PROELCO	196	SABA	009 025 033 041 090 094 095 096 101 249 132 174 185 217	SINGER	087 101 102	TELECOM	154
PROFEX	035 139	SAISHO	058 059 108 031 017 196	SINOTEC	154	TELEFUNKEN	090 145 174 217 249
PROFILO	164	SAKIO	134	SKANTIC	025	TELETECH	139
PROFITRONIC	154 196	SALORA	004 208 013 022 023 025 028 029 033 034 042 152	SKY	297	TELETON	025 033
PROLINE	164	SALORA	171 086 126 132 135	SOLAVOX	041	TELIVA	090
PROSCAN	137	SAMBERS	087	SONITRON	045	TENSAI	030 196 062 066 104 117 017 046 139 154
PROTECH	025 087 196 134	SAMPO	063	SONOKO	196 134 139	TEKON	139
PROTECH	139	SAMSUNG	064 106 162 086 140 134 137 154 188 195 196 206 216 017 080	SONOLOR	016	TESLA	196
PROTON	063 139	SANSUI	107 137 196	SONTEC	196	THOMAS	049 063 086 090 137 139 144 196
PROVISION	154	SANYO	042 113 044 045 069 046 043 086 088 107 111 067	SONY	112 107 113 114 017 076 144 069 067 270	THOMSON	006 100 033 090 094 095 096 099 174 185 217 229 233 249 073
PULSER	049 063 086 090 137 139 196			SOUND&VISION	087 117	THORN	020 028 029 030
PYE	110 159 187 265			SOUNDDESIGN	033 063 114 137 144 145	THORN-FERGUSON	041 044 045 196 049 054 070 046 174 088 090 097 107 113 114 153 138 144
PYMI	139			SPECTRA	143	TOKAI	137
QUELLE	003 014 025			SPECTRICIAN	063 196	TOKYO	086 196
				SR2000	042 177		137
				STANDARD	139 117		

DEVICE CODES

BRAND	CODE	BRAND	CODE	BRAND	CODE	BRAND	CODE
TOSHIBA	042 045 287 157 085 114 127 137 138 067 177 288 286		107 128 144 159 007 011 014 040	DAEWOO	064 174 016 065 067 068 072 073 163 173	GRUNDIG	057 090 095 101 102 103 113 138 145 114
AKIBA		AKURA	031 116 144	DANSAI	040	HANSEATIC	029
TOSONIC	137		007 043	DAYTRON	065	HARVARD	040
TOTEVISION	063	ALBA	064 031 065	DE GRAAF	020 041 052	HCM	040
TOWADA	025 087		077 118 129		057	HEADQUARTER	016
TRILUX	196		124 125 008	DECCA	041 047 004	HIFIVOX	047 048 094
TRISTAR	117		060 059		007	HINARI	013 031 040
TRIUMPH	058	ALLORGAN	160	DENON	138		077 082 097
UHER	078 196 087	AMSTRAD	041 004 076	DIGITAL	024 029 144		116 121 125
ULTRAVOX	086 087 101 102 132		078	DTS	160		147 008 114
		ANITECH	040	DUAL	047 094 138	HITACHI	020 021 023
UNIMOR	196	ARC EN CIEL	047 048 094		142		024 027 028
UNIVERSUM	018 134 244 196 104	ARISTONA	052 095 113		143 144		029 039 041
		ASA	029 057 058	DUMONT	016 029 040		047 179 091
UNIVOX	102	ASTRA	029 160		051		142 144 099
VECTOR/VICTOR	176	ASUKA	029 040 138		057 138		106 004 007
VESTEL	196 238 266 105 119	AUDIO DYNAMICS	144	DYNATECH	040 041	HYPSON	040
		AUDIOVOX	029	ECONOMIC	148	IMPERIAL	041 100 148
VEXA	139 196	AVIS	040 160	ELECTROHOME	029 160	INGELEN	047 048 094
VIDEOLOGIQUE	117	BAIRD	047 107 144	ELECTROPHONIC	029		110
VIDEOTON	004 095 099		004 007 011	ELIN	160	INGERSOL	082 147
		BANG & OLUFSEN	142	ELTA	040	INNO HIT	097 148
VISION	196	BASIC LINE	031 040 065	EMERSON	013 029 034	INTERBUY	029 040
VOXSON	024 196 101 102		077		041 077	INTERFUNK	016 138
		BEAUMARK	160	ESC	148	INTERVISION	040
WALTHAM	004 025 099	BELL & HOWELL	016	ETZUKO	040	IRRADIO	029 040
WARDS	176 196	BLAUPUNKT	090 095 102	FERGUSON	002 005 047	ITT	010 016 036
WATSON	244 117 139 196		111 113 138		087 089 094		047 088 107
			145 146		178 104 133		144 007 011
WATT RADIO	014 087	BONDSTEC	040		112 126 007		130 132
WEGA	101 114	BRANDT ELECTRON	047 048 094		141 144 152	ITT-NOKIA	047 048 094
WELTBlick	196		142 143 144		153 171		110
WHITE		BRIONVEGA	010	FIDELITY	040 041	ITV	029
WESTINGHOUSE	042	BROKSONIC	029	FINLANDIA	057 099	JENSEN	047 144
WORLDTECH	143	BRUNS	040	FINLUX	016 020 024	JVC	001 009 012
YOKO	035 196 117 143 134 139	BUSH	030 031 065 077 123 124		041 057 004 007 011 099		047 048 050 089 094 116
			125 008 114	FIRST LINE	024 029 040		119 129 142
YORK	045 196		059 060	FISHER	016 047 048		143 144 007
YORK	117	CALIN	029	FUNAI	029 040 041		132 133 139
ZANUSSI	024	CAPEHART	065		169 181 004		140 108
ZENITH	144 196	CARRERA	160	GAB	040	KAISUI	040
		CARVER	138	GBC	097	KENDO	036
		CGE	041 047 094	GE	160	KENWOOD	016 047 050
			144	GELOSO	097		116 144
		CIE	040	GOLDHAND	040	KLH	029 040
		CITIZEN	029 040 160	GOLDSTAR	016 029 058	KODAK	029
		CLASSIC	029		160 004	KORPEL	040
		COLORTYME	160	GOODMANS	064 031 040	KRIESLER	052 095 113
		COLT	040		041 045 053	KUBA ELECTRONIC	143 144 148
		CONTINENTAL EDIS.	040 047 048		057 058 065	LG	016 029 058
			094 142 143		077 071 004		160 004
			144	GRAETZ	016 047 048	LEYCO	040
		CRAIG	029 040 045		088 094 110	LOYD'S	029 040 041
			160		144		160
		CROSLEY	029 138 145	GRANADA	016 024 057	LOEWE	029 069 138
			160		113 129 099		098 105
		CROWN	040 064	GRANDIN	029 040		

VCR codes

ACTION	016 029 160
ADMIRAL	029 040
ADVANTZ	029
ADVENTURA	016 029 160
ADYSON	040
AGHA	160
AIWA	029 041 047 058 077 116 120 125 144 167 170 007 008 004
AKAI	003 024 029 030 032 036 037 038 047 074 094 164

DEVICE CODES

BRAND	CODE	BRAND	CODE	BRAND	CODE	BRAND	CODE
VCR codes							
LOEWE OPTA	057 086 095		110 130 071	PYE	052 057 086	SENTRA	065
	113		115 117 142		095 113	SETRON	040
LOGIK	031 040 045		143 144 148	QUARTER	016	SHARP	016 052 053
	077 082 107		149 150 151	QUARTZ	029 160		062 079 175
	147 160 071		160 007 011	QUASAR	138 145		015
LORWD	024		180 163 164	QUELLE	010 013 017	SHINTOM	031 040
LUXOR	016 036 107	NORDMENDE	168		024 028 038	SHIVAKI	029
	110 150 151		001 009 012		040 051 102	SHOGUN	160
LXI	016 024 029		018 022 025		113 142 143	SHORAI	147
	058		047 048 094		144 147 148	SIEMENS	016 017 029
M. ELECTRONIC	160		153 101 144	RADIALVA	029 040 138		090 095 102
MAGNASONIC	017 029 040	OCEANIC	143 142	RADIOLA	052 095 113		110 113
	110 160	OKANO	036 117	RADIX	029	SIERA	052 095 113
MAGNAVOX	029 160 145		040	RCA	024 029 036	SILVA	029
	138	OLYMPUS	145		160	SINGER	040 160
MAGNIN	029 160	OPTONICA	052 053	REALISTIC	016 029 041	SINUDYNE	082
MANESTH	040	ORION	013 029 033		045 052 053	SONTEC	029
MARANTZ	053 057 077		034 035 063	REX	001 047 048	SONY	051 054 055
	095 113		077 082 147		094 142 144		081 085 061
MARQUANT	040	OSAKI	008 059	RICOH	029		070 096
MARTA	029	OTTO VERSAND	041 058	ROADSTAR	031 040 045	SR1000	160
MATSUI	013 034 045	PACIFIC	138		058 160 071	STERN	047 048 094
	058 077 082	PALLADIUM	181	ROYAL	040	STS	020 024
	118 122 125	PANASONIC	029 040 144	SABA	001 009 018	SUNKAI	077
	137 138 147		019 075 092		025 047 048	SUNWOOD	040
	008		093 111 134		094 153 142	SYLVANIA	041 056 138
MEMPHIS	040		135 136 138	SAISHO	143 144	SYMPHONIC	029 040 041
MENOREX	016 029 041	PANASONIC	145 146 156		013 034 077		056 138
	052 058 160		157 161 098		082 091 118	TAISHO	147
METZ	095 102 145	PATHE MARCONI	105	SALORA	147 008	TANDY	016
	113 138		047 048 094		150 016 017	TASHIKO	041
MGA	056 160	PAXSONIX	160		036 056 129	TATUNG	041 047 138
MINERVA	090 102 113	PENNEY	024 029 138		149	TEAC	144 004 007
MINOLTA	020 024 027	160		SAMEX	160		041 047 144
mitsubishi	050 056 080	PENTAX	020 024 027	SAMSUNG	045 071 160	TECHLINE	040
	127 138 144	PERDIO	041		148 100	TECHNICS	138 156
	004 133	PHILCO	029 138 145	SANKYO	040	TEKNIKA	029 041
MTC	040 041 045		160	SANSUI	047 050 144	TELEAVIA	047 048 094
	160	PHILIPS	006 029 044	SANWA	147		142 144
MTS	016 024 029		046 049 052	SANYO	016 017 042	TELEFUNKEN	009 018 153
MULTITECH	041 029 031		053 057 069		077 110 131		047 048 094
	040	PHILIPS	083 086 095		109		144 142 143
MURPHY	041	PHILIPS	113 132 145	SBR	057 083 086	TELEORDER	160
NAD	160	PHILIPS	160		138	TELERENT	144
NAONIS	047 048 094	PHONOLA	052 057 086	SCHAUB LORENTZ	010 016 036	TELETECH	040
NATIONAL	111 145		095 113 138		047 048 088	TENOSAL	031
NEC	047 050 094	PILOT	029		094 110 144	TENSAI	029 040 147
	143 144	PIONEER	024 050 057	SCHNEIDER	024 028 029	THOMAS	160
NECKERMANN	010 013 017		138		031 040 041	THOMSON	018 022 047
	024 047 094	PIONEER	133		052 095 100		048 094 144
	113 144 147	PORTLAND	065		113 138 148		142 143 026
	148	PRIMA	144 160		064 169 008		132 133 139
NESCO	040	PROFEX	040		004	THORN	007
NIKKAI	029 064	PROFILE	160	SCOTT	029		032 047 089
NOBLIKO	113	PROLINE	041 004 114	SEARS	016 024 029		094 007 141
NOGAMATIC	047 048 094	PROSCAN	024 029 036	SEG	040 100 148	THORN FERGUSON	142 143 144
NOKIA	010 016 017		160		160		089 094 112
	036 047 048	PROTECH	040	SEI-SINUDYNE	082 138 147		104
	088 094 107	PULSAR	029 160	SELECO	047 048 094	TIVO HDD	026
		PULSER	016 029 160		142 143 144	TOKAI	029 040

DEVICE CODES

BRAND	CODE	BRAND	CODE	BRAND	CODE	BRAND	CODE	
TOSHIBA	132 029 047 048 056 084 094 138 144 160 007	LG	039	DVD codes	3DLAB	017	OTHERS	033 066
TOWADA	040	LORRAINE	039		AIWA	027 050	PACIFIC	032
TOWIKA	040	LUXOR	110 012 013		AKAI	031	PANASONIC	002 006 011
TRIX	029	MANHATTAN	002		ALBA	065 066 067	PHILIPS	068 055 024 012 017 051 052 056
UHER	024 029 047 100 142 144 148	MEDIASTAR	035		APEX	047 035	PIONEER	004 014 020 048 053 058 054 059
ULTRAVOX	010	METRONIC	153		BUSH	065 066 067	PROFILO	066 067
UNITECH	045 160	MOVIE TIME	018		CLASSIC	029	PROLINE	066 067
UNIVERSUM	029 036 138 169	MURATTO	039		COBY	029	RAITE	044
UNIVERSUM	160	NOKIA	008 003 012 013 001 110		CYBERCOM	032	RCA	005
VICTOR	047 050 144	NORDEMNDE	153		DAEWOO	038 040	REVOX	055
VIDEOSONIC	160	ORBITECH	153	DANSAI	065	REVOY	039	
VIEWMARK	029	PACE	034	DENON	006 016	ROADSTAR	037	
WARDS	024 040 160	PANASONIC	036	DIK	032	ROTEL	018	
WELTBlick	029	PHILIPS	023 038 010 004 006 007	DK DIGITAL	032	SAMSUNG	022 059 060	
WHITE		PIONEER	021 029 011	DMTECH	072	SCHAUB LORENZ	055	
WESTINGHOUSE	010	SALORA	110 012 013	DRAGON	032	SCHNEIDER	072 073 074	
XR-1000	040 160	SAMSUNG	153 154	DUAL	032 029	SHARP	070 011	
YAMAHA	047	SAT	021	ELTA	075	SHINCO	015	
YAMASHI	040	SATPARTNER	153 039	ENZER	044	SILVASCHNEIDER	032	
YOKO	160 029 040 148	SCHAUB LORENTZ	110	FISHER	041	SINUDYNE	025	
ZANUSSI	047 048 094	SCIENTIFIC ATLANTA	015 201	GOODMANS	065 066 067	SKYMASTER	029 075	
ZENDER	094	SEG	153	GRUNDIG	068 055 069	SKYWORTH	034 049	
ZOPPAS	047 048	SILVA	039	HARMAN KARDON	070 071	SONY	001 045	
		SKY	151	HE	029	TCM	032 070 071	
		SKY PLUS	212	HITACHI	020 021 022 008	TEAC	020 015	
		SONY	170	HOME ELECTRONICS	029	TEVION	032 070 071	
		STAR TRAK	153	INNOVATION	032 070 071	THETA DIGITAL	058 059	
		STRONG	039 153	IRRADIO	019	THOMSON	013 023	
		TELE+1	016	JVC	007 018 057 063 058	TOSHIBA	003 0051 052	
		TELEFUNKEN	153	KENDO	032	UNK	028	
		TELEKA	154	KENWOOD	046 006 054 055	VOXSON	032	
		THOMSON	014 019	KLH	010	WELKIN	032	
		TOSHIBA	168	LENCO	039	WHARFEDALE	076	
		TRIAD	039	LENCO	039 032	YAMAHA	006 030 056 057	
		VISIOPASS	028	LG (GOLDSTAR)	009	ZENITH	009 051 061 062 052	
		VORTEC	153 154	LIFE	070 071			
		WITTENBERG	021	LIFETEC	032 070 071			
				LOEWE	068			
				LOEWE OPTA	055 615			
				LUXMAN	022			
				MAGNAVOX	051 052			
				MARANTZ	017 024			
				MBO	029			
				MEDION	032 070 071			
				MEDION	072			
				MEMOREX	032			
				MICROMAXX	032 070 071			
				MICROSTAR	032 070 071			
				MITSUBISHI	053			
				MUSTEK	029			
				NAD	074 043			
				NAKAMICHI	042			
				NORDMENDE	032			
				ONKYO	026 062 051 064			

SAT/CTV codes

ALBA	153
AMSTRAD	021
ARCON	021 154
AXIS	021
BIRMINGHAM CABLE	035
CABLETIME	035
CARLTON	035
CRUPTOVISION	024
ECHOSTAR	020 022 025 031 065 017 082 088 108
FIDELITY	021
FILMNET CABLECRYPTO	016
FILMNET COMCRYPT	016
FREECOM	039 153
GOLDSTAR	039
GRAETZ	110
GRUNDIG	021
HANTOR	153
HUMAX	033
INGELEN	110
ITT	085
ITT-NOKIA	025 110
JERROLD	202 203 211 210
KOSMOS	039
KYOSTAR	153
LENCO	153 039

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