

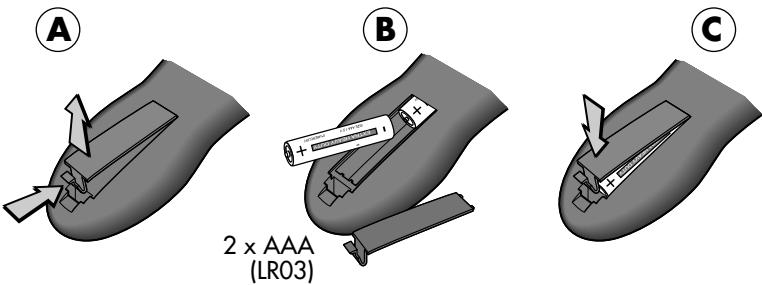
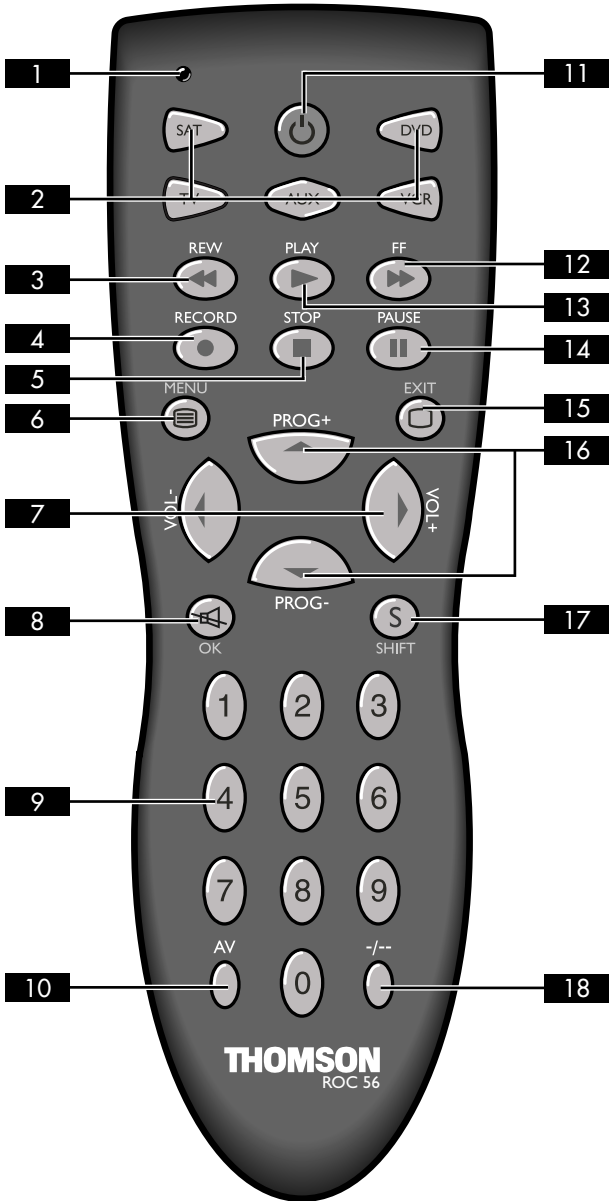


THOMSON

ROC56

User manual

ROC56



ENGLISH - Do not mix different types of batteries or new and old batteries. Do not use rechargeable batteries. In order to avoid any risk of explosion, observe polarities indicated inside the battery compartment. Replace only with the type of batteries specified above. Do not throw them into fire, do not recharge them. If you are not using the remote control for a long period of time, remove the batteries. Please respect the environment and prevailing regulations. Before you dispose of batteries or accumulators, ask your dealer whether they are subject to special recycling and if they will accept them for disposal.

This Universal Remote Control is compatible with most models of infrared-controlled TV sets, video recorders, LVD players, satellite and cable TV receivers.

This remote control has already been programmed so that you can use it to control most of the audio/video products made by the THOMSON group. Before attempting to programme the remote control, install 2 batteries (AAA, not supplied) and try it out by using one of the methods described in this user manual.

Please keep this guide along with the code list (provided separately), so that you can programme your remote control for use with other products.

1 - Description of the key functions

- 1** **Indicator lamp:** the red indicator lamp lights up when any key is pressed.
- 2** **Product keys (TV, VCR, SAT, DVD or AUX):** Used to programme and control different products (TV, satellite receiver, video recorder, DVD player and so on).
- 3** **◀ (REW):** Goes backward or advances forward (**VCRs** and **DVDs**); press with **red** key for fast text function in TV mode.
- 4** **RECORD:** To record, press the **RECORD** key twice.
- 5** **STOP:** Stops **VCR** tape advance; in DVD mode, stops disc play; press with **green** key for fast text function in TV mode.
- 6** **☒/MENU:** Teletext On/Off in TV mode; turns on the menu of the selected products (**SHIFT + MENU**).
- 7** **VOL -, VOL +:** Increases (+) or decreases (-) the volume of the TV set; use to scroll horizontally in any menu (**SHIFT + VOL+/-**).
- 8** **🔊/OK:** Switches the TV sound off or confirms a selection (**SHIFT + 🔊**).
- 9** **Number keys 0 to 9:** these keys have the same functions as those of your original remote and are also used to enter the codes for different products.
- 10** **AV:** For selecting an external source (SCART).
- 11** **⏻:** On/Standby.
- 12** **▶▶ (FF):** fast forward for **VCRs** and **DVDs**; press with **blue** key for fast text function in TV mode.
- 13** **▶ (PLAY):** plays a **VCR** tape or **DVD** disk; press with **yellow** key for fast text function in TV mode.
- 14** **⏸ (PAUSE):** Suspends play and stops on an image; press with **magenta** key for fast text function in TV mode.
- 15** **☐/EXIT:** Teletext Off in TV mode; turns off the menu of the selected product (**SHIFT + EXIT**).
- 16** **PROG+/-:** Programmes zapping button (rapid select); use to scroll vertically through menus (**SHIFT + PROG+/-**).
- 17** **S/SHIFT:** Programmes the remote control (**S**) or activates the secondary key features (**SHIFT**).
- 18** **+/-:** Press this key first before you type in the 2-digit channel number (except for Thomson group products).

2 - Testing the remote control before you programme it

1. Turn on the product you want to control.
2. Press the product key (**2**) that corresponds to the type of product you want to control:
TV: television set **DVD:** DVD player
VCR: video recorder **AUX:** other product
SAT: satellite receiver
3. Point the remote control towards the product and try to turn it off by pressing the **⏻** key. If the product doesn't turn off, you'll need to programme the remote control by one of the methods described in chapter 3.



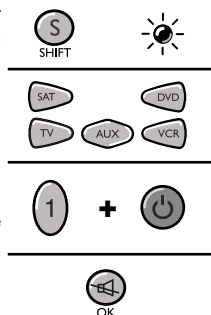
3 - Programming the remote control

Method A – Fast programming with 1-digit subcode

Before you start programming, you must find the **subcode** of the product to be controlled (Television, VCR, satellite receiver or DVD player).

Refer to the list provided with these instructions, page I of the **codes**.

1. Turn on the product you want to control.
2. Hold down the **S** key (**17**) until the red indicator lamp (**1**) remains lit (the indicator light remains on for a few seconds to give you the time to proceed with the following steps. The indicator lamp flashes when this time is almost up, and then goes off).
3. Press the product key (**2**) that corresponds to the type of product you want to control: **TV**: television set, **VCR**: video recorder, **SAT**: satellite receiver, **DVD**: DVD player, **AUX**: other product.
4. While the indicator is lit, type in the subcode (example: **1** for THOMSON).
5. Point the remote towards the product and try to turn it off by pressing the key **11**.
6. If the product you want to control turns off, press **OK** (**8**) to save the subcode.
7. If the product doesn't turn off, press the **11** key (**11**) repeatedly until the set switches off. Wait approximately one second between key presses to give the red indicator lamp (**1**) enough time to go off and light up again. This will allow you to see whether the product responds or not.
8. Immediately after the product to be controlled turns off, press **OK** (**8**) to save the subcode.



Note:

When programming the **AUX** key (to control any other type of product) begin by entering the code that corresponds to the product you want to programme (a 3-digit code that you will find in the code booklet – see method B).

Example: if you want to control a satellite receiver with the **AUX** key, begin by entering a satellite code (any satellite, for example: 603 for a Thomson satellite receiver) then begin the procedure.

Checking the programming:

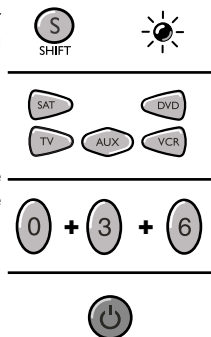
Your product should be ready to receive remote control commands. Check to see that your remote functions correctly by performing the test described on page 4.

Method B – 3-digit codes programming

Before you start programming, you must find the **code** for the product to be controlled (Television, VCR, satellite receiver, cable receiver or DVD player).

Refer to the list provided with these instructions, on page II of the **codes**.

1. Turn on the product you want to control.
2. Hold down the **S** key (**17**) until the red indicator lamp (**1**) remains lit (the indicator light remains on for a few seconds to give you the time to proceed with the following steps. The indicator lamp flashes when this time is almost up, and then goes off).
3. Press the product key (**2**) that corresponds to the type of product you want to control: **TV**: television set, **VCR**: video recorder, **SAT**: satellite receiver, **DVD**: DVD player, **AUX**: other product.
4. While the indicator is lit, enter the 3-digit code proposed for the product to be controlled (example: **036** for THOMSON). The red indicator then goes off if the code is correct or flashes, if the code is not on the list.
5. Point the remote control towards the product and try to turn it off by pressing the **11** key (**11**).
6. If the product doesn't turn off, repeat step 2, using the next 3-digit code in the list. Try to turn off the product by pressing **11** key (**11**) once. Repeat this procedure until one of the 3-digit codes works.



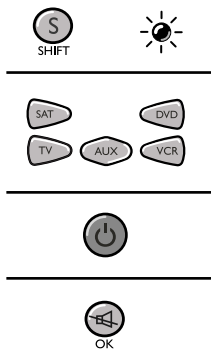
Checking the programming:

Your product should be ready to receive remote control commands. Check to see that your remote functions correctly by performing the test described on page 4.

Method C – Programming by means of code retrieval

If none of the codes work, you may still be able to retrieve the appropriate code.

1. Turn on the product you want to control.
2. Hold down the **S** key (**17**) until the red indicator lamp (**1**) remains lit (the indicator light remains on for a few seconds to give you the time to proceed with the following steps. The indicator lamp flashes when this time is almost up, and then goes off).
3. Press the product key (**2**) that corresponds to the type of product you want to control: **TV**: television set, **VCR**: video recorder, **SAT**: satellite receiver, **DVD**: DVD player, **AUX**: other product.
4. Point the remote control towards the product and try to turn it off by pressing the **⏻** key (**11**).
5. If the product you want to control turns off, press **OK** (**8**) to save the subcode.
6. If the product does not turn off, press the **⏻** key (**11**) until the product switches off (up to 200 times). Wait approximately one second between key presses to give the red indicator lamp (**1**) enough time to go off and light up again. This will allow you to see whether the product responds or not.
7. Immediately upon turning off the product to be controlled, press **OK** (**8**) to save the code.



Note:

When programming the **AUX** key (to control any type of product) begin by entering a code that corresponds to the product you want to programme (a 3-digit code that you will find in the code booklet – see method B).

Example: if you want to control a satellite receiver with the **AUX** key, begin by entering a satellite code (any satellite, for example: 603 for a Thomson satellite receiver) then begin the procedure.

Checking the programming:

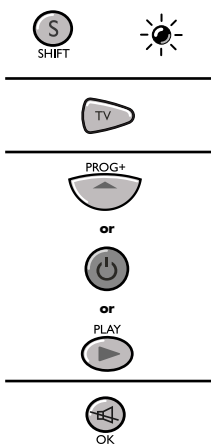
Your product should be ready to receive remote control commands.

Check to see that your remote functions correctly by performing the test described on page 4.

Method D - Automatic code search

With this method, the remote scrolls through the full code list by sending an IR signal to the product to be controlled remotely.

1. Check that your product is on. If not, turn it on manually.
2. Hold down the **S** key (**17**) until the red indicator lamp (**1**) remains lit (the indicator light remains on for a few seconds to give you the time to proceed with the following steps. The indicator lamp flashes when this time is almost up, and then goes off).
3. Release the **S** key.
4. Press the product key (**2**) corresponding to the type of product you want to control: (for example **TV**).
5. Press **PROG+** (**16**) or standby **⏻** (**11**) or **PLAY** (**▶** -VCR/DVD only). After a few seconds, the remote begins to scroll through the code list at approximately 1 code per second. Press **PROG+** (**16**) once again to slow down the test speed (1 code every 3 seconds). As soon as the product changes channels, press **OK** (**8**) to save the code and stop the remote from scrolling through the list. If you have gone past the code, you can go back to the previous code by pressing **PROG-** (**16**) or **REW** (**◀**) (**3**) as many times as necessary (you can go forward by pressing **⏻** (**11**), **PROG+** (**16**) or **PLAY** (**▶**) (**13**)). As soon as the product responds again, press **OK** (**8**) to save the code.



Note:

When programming the **AUX** key (to control any type of product) begin by entering a code that corresponds to the product you want to programme (a 3-digit code that you will find in the code booklet – see method B).

Example: if you want to control a satellite receiver with the **AUX** key, begin by entering a satellite code (any satellite, for example: 603 for a Thomson satellite receiver) then begin the procedure.

Checking the programming:

Your product should be ready to receive remote control commands.

Check to see that your remote functions correctly by performing the test described on page 4.

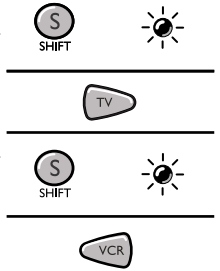
Method E – Programming for control of a COMBO (TV-VCR)

To set up the remote control to control a COMBO you first programme the television and then the video recorder subset.

Before you start programming, you must find the **subcode** or **code** of the combo to be controlled (television or video recorder).

Refer to the list supplied with this user manual (see page **subcodes** or **codes**).

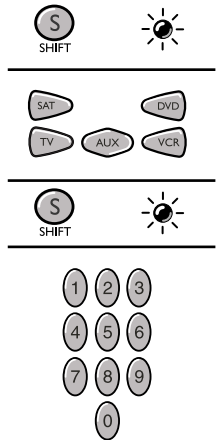
1. Turn on the COMBO you want to control.
2. Hold down the **S** key (**17**) until the red indicator lamp (**1**) remains lit (the indicator light remains on for a few seconds to give you the time to proceed with the following steps. The indicator lamp flashes when this time is almost up, and then goes off).
3. Press the **TV** key (**2**), then follow one of the programming methods (**A, B, C** or **D**) described earlier.
4. Hold down the **S** key (**17**) until the red indicator lamp (**1**) remains lit (the indicator light remains on for a few seconds to give you the time to proceed with the following steps. The indicator lamp flashes when this time is almost up, and then goes off).
5. Press the **VCR** key (**2**), then follow one of the programming methods (**A, B, C** or **D**) described earlier.



4 – How to retrieve a programmed code

You may want to retrieve the code programmed in the remote control.

1. Hold down the **S** key (**17**) until the red indicator lamp (**1**) remains lit (the indicator light remains on for a few seconds to give you the time to proceed with the following steps. The indicator lamp flashes when this time is almost up, and then goes off).
2. Press the product key (**2**) that corresponds to the type of product you want to control:
TV: television set, **VCR**: video recorder, **SAT**: satellite receiver,
DVD: DVD player, **AUX**: other product.
3. Press **S** (**17**) again briefly. The red indicator lamp flashes once.
4. Press the number keys (**0** to **9**) in ascending order until the red indicator lamp (**1**) flashes once.
5. The digit which made the red indicator lamp (**1**) flash, is the first number of the 3-digit code. Please make note of it.
6. Repeat step 4 to find out the two other numbers of the code.
7. When the third number is found, the red indicator lamp (**1**) goes off.



5 – Check the programming

- For a television or a satellite receiver: turn on and off, then try to change channels using **PROG+/1** (**16**) or a digit key (**9**).
- Video recorder: load a tape and then press **PLAY** (**▶**) (**13**).
- DVD player: load a DVD and then press **PLAY** (**▶**) (**13**).

Try other remote control keys to find out which functions you can control. If you think that not all of the keys are active, try the programming **Method B** or **C**.

When you have retrieved the code of your product, make note of it; after battery replacement, you may have to programme the remote control again.

TV CODE		
<input type="text"/>	<input type="text"/>	<input type="text"/>

VCR CODE		
<input type="text"/>	<input type="text"/>	<input type="text"/>

SAT CODE		
<input type="text"/>	<input type="text"/>	<input type="text"/>

DVD CODE		
<input type="text"/>	<input type="text"/>	<input type="text"/>

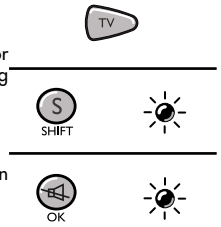
AUX CODE		
<input type="text"/>	<input type="text"/>	<input type="text"/>

6 - Controlling volume in satellite and cable mode

Since some satellites and cable receivers have no volume control, the **ROC 56** remote control allows you to control the television's volume in satellite or cable mode. For satellite systems with a volume control, you can choose the product that the **MUTE (8)** and **VOL (7)** keys will control: the television volume or the volume of the satellite or cable receiver.

To choose, proceed as follows:

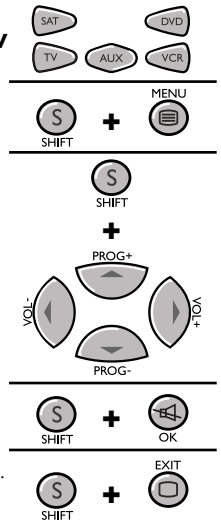
1. Press the **TV** key (**2**) (the remote control must be in TV mode for this procedure).
2. Hold down the **S** key (**17**) until the red indicator lamp (**1**) remains lit (the indicator light remains on for a few seconds to give you the time to proceed with the following steps. The indicator lamp flashes when this time is almost up, and then goes off).
3. Release the **S** key (**17**).
4. Press the **MUTE** key (**8**) for around 8 seconds. The indicator light will blink and then go off for about 8 seconds before blinking once more and then staying off.
5. If the remote previously controlled the television volume in **SAT** mode, it will now control the volume of the satellite receiver; if it previously controlled the volume of the satellite receiver, it will now control the television volume.



7 - The NAVILIGHT system

The **THOMSON NAVILIGHT** system allows you easy access to the settings of your television (TV) or video recorder (VCR).

1. Switch on the product you want to control.
2. Select the type of product concerned. In the **VCR** position, make sure that the **AV** mode is activated for the TV set (the SCART socket must be selected).
3. Press the **S/SHIFT** key (**17**) once and then press **MENU/MENU** (**6**).
4. To travel through the setting menus, press the **S/SHIFT** key (**17**) and then use the **up, down, left, right** (**7** and **16**). You must press the **S** (**17**) key and arrow key at the same time. You must press the **S** (**17**) key for every arrow key press and release.
5. Validate with **S/SHIFT** (**17**) + **MUTE/OK** (**8**).
6. To exit the menu, press the **S/SHIFT** key (**17**) once and then press **EXIT/EXIT** (**15**).



THOMSON HELPLINE

You can contact **THOMSON** by dialling: 0871 712 1312
 (For Great-Britain, all calls will be charged 0,10£ / mn)
 For Switzerland: 0 900 905 980 (0,18CHF / mn)
www.thomson-europe.com

ROC56

Model and serial number

THOMSON Multimedia Sales Europe
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92648 Boulogne Cedex
FRANCE
322 019 464 RCS NANTERRE
<http://www.thomson-europe.com>



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Dealer's address

GB Subcodes

DK Underkoder

F Sous-codes

SF Alakoodit

D Untercodes

CZ Podkódy

I Sotto-codici

H Alkódok

E Subcódigos

PL Kody pomocnicze

P Sub-códigos

SK Podkódy

NL Subcodes

RU Подкоды

S Underkoder

GR Υποκωδικοί



THOMSON BRANDT	TELEFUNKEN SABA NORDMENDE BAIRD FERGUSON	GRUNDIG BLAUPUNKT	NOKIA FINLUX ITT, LUXOR DANTAX, BEKO PROSONIC	FOR FUTURE USE	FOR FUTURE USE	PHILIPS ERRES PYE PHILCO RADIOLA	SONY, AKAI PANASONIC JVC SHARP TOSHIBA DAEWU
1	2	3	4	5	6	7	8



THOMSON BRANDT	TELEFUNKEN SABA NORDMENDE BAIRD FERGUSON	GRUNDIG BLAUPUNKT	NOKIA FINLUX ITT, LUXOR DANTAX, BEKO PROSONIC	FOR FUTURE USE	FOR FUTURE USE	PHILIPS ERRES PYE PHILCO RADIOLA	SONY, AKAI PANASONIC JVC SHARP TOSHIBA DAEWU
1	2	3	4	5	6	7	8



THOMSON BRANDT	TELEFUNKEN SABA NORDMENDE BAIRD FERGUSON	GRUNDIG BLAUPUNKT	NOKIA FINLUX ITT, LUXOR DANTAX, BEKO PROSONIC	FOR FUTURE USE	FOR FUTURE USE	PHILIPS ERRES PYE PHILCO RADIOLA	SONY, AKAI PANASONIC JVC SHARP TOSHIBA DAEWU
1	2	3	4	5	6	7	8



THOMSON BRANDT	TELEFUNKEN SABA NORDMENDE FERGUSON	GRUNDIG BLAUPUNKT	NOKIA FINLUX ITT LUXOR	FOR FUTURE USE	FOR FUTURE USE	PHILIPS ERRES PYE PHILCO RADIOLA	PACE ECHOSTAR
1	2	3	4	5	6	7	8

ROC26 / ROC36 / ROC46 / ROC56

TV codes/Codes TV/TV-Codes/Codici TV/Códigos de TV/Códigos TV/Codes TV/Koder TV/Tv-koder/TV-koodit/Kódy TV/TV kódok/Kódy TV/Kódy TV/Коды ТВ/Κωδικοί Τηλεόρασης

ACME.....	003,044
ADA.....	022
ADC.....	010,003
ACURA.....	009,074
ADMIRAL.....	000,001,002,019,021,053,108
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AGAZI.....	002
AGB.....	123
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ARC EN CIEL.....	045,126,139
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BONDSTEC.....	129
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CITY.....	009
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ELECT.....	000
ELECTRO TECH.....	009
ELECTA.....	120
EUN.....	003,016,018,051,169
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ELMAN.....	014,131
EDIA.....	009
EMERSON.....	000,127,141
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ETRON.....	009
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FINLUX.....	000,003,004,014,016,017,018,043,051,061,063,110,123,131,157,167,169
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FORNENTI.....	000,001,003,043,125,131,133,169
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FUNAI.....	002,026
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GBC.....	009,027,131
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GENERAL TECHNIC.....	009
GENEXIA.....	011,021,051
GOLDSTAR.....	003,009,012,019,051,084,093,129,131,169,171
GOODMANS.....	002,004,009,027,028,051,068,093,111,115,127,153,169,171
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GPM.....	011
GRAETZ.....	021,141,142
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TEVION.....	269,330,334,335,337,338,340,341,342,343,344,345,352,356,358,371,372,373,664
THEIA DIGITAL.....	368
THOMSON.....	359,360,399
TOSHIBA.....	362
UNITED.....	333,348
UNIVERSUM.....	350
WHARFEDALE.....	376
XENIUS.....	358
YAMAHA.....	364,388
YAMAKAWA.....	397
ZENITH.....	375

Cable receiver codes/Codes Récepteurs Câble/Kabelempfänger-Codes/Codici Ricevitori via Cavo/Códigos de Receptores por Cable/Códigos Receptores Cabo/Codes Kabelontvangers/Koder Kabelmottagare/Kabelmodtager-koder/Καπελιεστασσητιμεν κωδιτ/Kódy kabelových přijímačů/Kábeles venőkészülékek kódjai/Kody Odborníkův Televizijí Kablovej/Kódy káblových přijímačů/Kody Кабельных Приемников/Κωδικόι καλωδιακών δεκτών

CABLETIME.....	448,449,450
CABLE AND WIRELESS.....	606
CYDIE CABLEVISION.....	452
CRYPTOVISION.....	458
FILANET CABLECRYPT.....	474
FILANET COMCRYPT.....	474
FOXTEL.....	602
GEZ.....	452
GRUNDIG.....	415,483
JERROLD.....	494,554
MOVIE TIME.....	551
NTL.....	606
OPTUS.....	494
PACE.....	606
PIONEER.....	415,518,521
SCIENTIFIC ATLANTA.....	524,525
STS.....	551
TELE-1.....	474
TELEWEST.....	606
VISIOPASS.....	487

Satellite receiver codes/Codes Récepteurs Satellites/Satellitenempfänger-Codes/Codici Ricevitori Via Satellite/Códigos de Receptores por Satellite/Códigos Receptores Satélites/Codes Satellietontvangers/Koder Satellitmottagare/Satellitmodtager-koder/SAT-koodit/Kódy satelitních tunerů/Műholdas venőkészülékek kódjai/Kody Odborníkův Satelitarných/Kódy satelitních tunerů/Коды Спутниковых Приемников/Κωδικόι δορυφορικών δεκτών

AKAI.....	552
ALBA.....	401,402,404,405,407,482,562
AIDES.....	405,408,409
ALLSAT.....	410,462,552
ALLSONIC.....	408,428
AMPRE.....	422
AMSTRAD.....	415,416,417,419,421,541,555,584
ANKARO.....	408,428
ANTTRON.....	401,407
APOLLO.....	401
ARCON.....	415,422,424,426,463
ARINSTRONG.....	419
ASAT.....	552
AST.....	435
ASTON.....	406,594
ASTRA.....	419,429,431,432,502
ASTRO.....	407,409,428,439,441
AUDOTON.....	407,462
AVIS.....	415,428,432,456
BARCOM.....	424
BEST.....	424,428
BLAUPUNKT.....	439
BOCA.....	419,502,635
BRANDT.....	565,566,567,574
BRAIN WAVE.....	444
BROADCAST.....	443
BT SATELLITE.....	420,574
BUSH.....	402,404,410,446,482,562
CANAL+.....	569
CHANNEL MASTER.....	405
CHAPARRAL.....	507
CHESS.....	547,586
CITYCOM.....	402,459
CLATRONIC.....	444
CLEMENS KAMPHUIS.....	491
CNT.....	409
COLUMBUS.....	477
COMLINK.....	408
COMTECH.....	456
CONDOR.....	428
CONNECTIONS.....	438,454
CONTEC.....	456,459
COSAT.....	462
CROWN.....	419
CYBERCOM.....	412,413,423,428,493,504,511,566,583,586,587,618,619
CYBERWAXX.....	618
DAERYUNG.....	438
DANSAT.....	410
DDC.....	405
DECCA.....	460
DELEGA.....	405
DEW.....	456
DIAMOND.....	461
DISKOPRESS.....	424,454
DITRISTRAD.....	462
DNT.....	438,552
DONG WOO.....	501
DRAKE.....	463,557
DUAL.....	412,413,423,428,493,504,511,566,583,586,587,618,619
ECHOSTAR.....	425,438,464,465,467,481,578,579,580,581,586
ENHELL.....	401,408,417,419
ELEKA.....	409
EIDA.....	401,428,462,552
EMANON.....	401
EMME ESSE.....	428,446,491
EP SAT.....	402
EURODEC.....	603
EUROSAT.....	419
EUROSKY.....	419,428
EUROSPACE.....	468
EUROSTAR.....	419
EVATAR.....	401,407
FERGUSON.....	402,410,446,471,472,473,603
FIDELITY.....	415,417
FINLANDIA.....	402
FINLUX.....	402,429,475,480,487,608
FINNSAT.....	456,603
FORCE.....	535,553,577
FOXTEL.....	602
FRACARRO.....	562
FRANCE SATELLITE/TV.....	477
FREECOM.....	401,489
FTE.....	420,422,496
FUBA.....	401,424,428,431,438,439,477,480,548,552
GALVOS.....	408,428,432,456,462,478,484,535,582,583

ROC26 / ROC36 / ROC46 / ROC56

GALAXY.....	424
GAN.....	419
GOLDSTAR.....	489
GOODING.....	483
GOODMANS.....	402,482,526
GRANADA.....	429
GROTHUSEN.....	401,489
GRUNDIG.....	402,407,436,439,446,483,495,512,550,555,584,602
HANSEATIC.....	504
HANTOR.....	401,444,501
HANURI.....	409
HELIOCOM.....	422
HINARI.....	405
HIRSCHMANN.....	439,487,488,491,522,547,548,558
HISAWA.....	444
HITACHI.....	402,446,537
HOUSTON.....	462
HUTH.....	408,411,419,443,444,456,462,491
HUMAX.....	485,517,582
HYUNDAI.....	486
IMPERIAL.....	482,562
INNOVATION.....	428,493,504,511,583,586,587,618,619
INTERTRONIC.....	419
INTERVISION.....	462
ITI/NOKIA.....	402,429,446,454,487,537,548
JOHANSSON.....	444
JSR.....	462
JVC.....	483
KATHREIN.....	439,441,459,496,498,499,507,549,552,607,617
KOSMOS.....	489,491,496
KR.....	407
KREISELMEYER.....	439
KYOSAR.....	401
LABGEAR.....	513
LASAT.....	409,428,500,501,502,565,566,567
LENCO.....	401,420,489,503
LENG.....	444
LENOX.....	462
LENSON.....	479
LIFE.....	583
LIFESAT.....	412,413,423,428,493,504,511,583,586,587,618,619
LIFETEC.....	412,413,423,428,493,504,511,583,586,587,618,619
LION.....	468
LG.....	489
LORRAINE.....	489
LUPUS.....	428
LUXOR.....	417,429,537,548
LYONHASE.....	603
MACAB.....	603
MANHATTAN.....	402,403,409,446,462,633
MARANTZ.....	552
MASCOM.....	409
MASPRO.....	402,446,471,483,507,558
MATSUI.....	483,574
MB.....	504
MEDIAWAKT.....	419
MEDIASAT.....	432
MEDION.....	412,413,423,428,493,504,511,566,583,586,587,618,619
MEGA.....	552
METRONIC.....	401,407,408,409,424,601,612,613,614,615,632
MIETZ.....	439
MICROMAX.....	412,413,423,428,493,504,511,583,586,587,618,619
MICROSTAR.....	412,413,423,428,493,504,511,583,586,587,618,619
MICRO TECHNOLOGY.....	468
MINERIA.....	439,483
MITSUBISHI.....	402,439,574
MITSUMI.....	502
MORGANS.....	419,502,552
MORGAN STONEY.....	611
MULTICHOICE.....	602
MULTISTAR.....	496,501
MULTITEC.....	584,587
MURATO.....	437,489
NAVEX.....	444
NEC.....	509,510
NEUHAUS.....	432,462,479
NEXTWAVE.....	414,585
NIKKO.....	419
NOKIA.....	402,429,446,454,487,519,530,531,544,548,563,564
NOMEX.....	622
NORDMENDE.....	401,402,405,409,472,549,603
NOVIS.....	444
OCEANIC.....	461,468
OCTAGON.....	401,407,456
OKANO.....	419,491,496
OPTEX.....	459,462
ORBIT.....	435
ORBITTECH.....	401
ORIGO.....	468
OSAT.....	407
OTTO VERSAND.....	439
PACE.....	402,410,439,446,471,482,508,527,555,559,584
PACIFIC.....	461
PALCOM.....	405,431,477,479
PALLADIUM.....	419,483
PALTEC.....	431
PANASONIC.....	402,446,542,555,584
PANDA.....	402,410
PHILIPS.....	402,427,434,436,446,455,483,493,495,508,515,550,552,561,599,600,605
PHOENIX.....	456,482
PHONOTREND.....	408,462,491
PIONEER.....	620
POLSAT.....	603
POLYTRON.....	459
PREDIO.....	444
PREMIERE.....	462,544,564,569
PRESIDENT.....	419
PROFI.....	503
PROMAX.....	402
PROSAT.....	404,405,408,482,562
PROTEK.....	461
PROVISION.....	409
QUADRAL.....	405,408,428
QUELLE.....	417,439
QUIERO.....	603
RADIAL.....	552
RADIO.....	438,630
RAINBOW.....	407
REDIFFUSION.....	510
REDPOINT.....	432
REDSTAR.....	428
RFT.....	408,552
RUEFICH.....	503
SABA.....	404,409,446,468,471,472,543,556,562,565,571,572,573,575
SABRE.....	402
SAGEMI.....	603,604
SAKURA.....	456,482
SALORA.....	429,509,510,527
SAMSUNG.....	401,426
SAT.....	405,415,435,437
SATCOM.....	443,504,523
SATEC.....	446
SATFORD.....	443
SATMASTER.....	443
SATPARTNER.....	401,407,409,444,489,491
SCHNEIDER.....	428,455,511,583,586,587,618,635
SCHWABER.....	411,412,430,433,440,459,498,504,508,516,566,573,575,576,577,582,583,585,587,598,616,631,633,635
SEEMANN.....	419,432,438
SEG.....	401,428,444,504,541,631,634
SELECO.....	462
SIEMENS.....	439
SILVA.....	489
SKARDIN.....	432
SKY DIGITAL.....	555,584
SKYMASTER.....	408,504,546,547,586,587,588,589,590,591,592,621
SKYMAX.....	552
SKYVISION.....	462
SONY.....	418,555,584
SR.....	419,472,502
STARLAND.....	586
STARTRONIC.....	444
STAR TRAK.....	401
STRONG.....	401,407,428,454,489,545,562
SUOMIA.....	419
SUNSTAR.....	419,502,527
TANDBERG.....	603
TANDY.....	407
TANTEC.....	402,446,471,477,479
TATUNG.....	460
TCM.....	412,413,423,428,493,504,511,583,586,587,618,619
TECO.....	419,502
TECHNILAND.....	443
TECHNISAT.....	438,479,528,529,623
TELANOR.....	405
TELASAT.....	504
TELEFUNKEN.....	401,446,560,565,566,567,574
TELEKA.....	407,419,426,438
TELEMASTER.....	409
TELEMAX.....	500
TELESAT.....	504
TELESTAR.....	479
TELEVES.....	402,610,611
TELEWENDE.....	462
TEVION.....	412,413,423,428,493,504,511,566,583,586,587,618,619
THOMSON.....	402,472,532,560,568,574,603
THORIS.....	461
THORN.....	402,410,446,471,473
TIDIO.....	459
TONINA.....	402,443,462
TPS.....	570
TRAD.....	435,437,489,533
TRASAT.....	480
TRAX.....	439,479,565,609
TWINNER.....	610,611
UNDEN.....	534

ROC26 / ROC36 / ROC46 / ROC56

UNISAT	419,456
UNITOR	424,444
UNIVERSUM	439,475,483,487
VARIOSTAT	439
VECTOR	468
VENTANA	552
VIA DIGITAL	568
VISOCAT	444,462,586,593,594,595,596,597
VIVANCO	536,624
VORTEC	401,426
VTECH	435,437,515,537
WEWA	402
WEWSAT	402
WINERSAT	444
WISI	402,435,437,438,439,533,538,539,540,597,625,626,627,628,629
WITTENBERG	415
WOODSAT	409
ZEHNDER	409,424,428,437,496,498,541,631,632
ZODIAC	407

AUDIO

CD Players

AUCOM	648
AWA	649,650,651,751
AWAI	653,654,655
ALBA	656
ARCAM	732
BESTAR	659
BSR	660
BUSH	661
CARRERA	663
CONDOR	660
CYBERCOM	643,664,668,675,694,730,742,743,744,745,746,747,801,802,803
DENON	665,666
DUAL	643,648,664,668,675,694,730,742,743,744,745,746,747,798,801,802,803
EMERSON	648,659
ELIA	667,668,693,694,745
FISHER	669
GENEVA	659,671,672,673,675,676,677
GOLDSTAR	663
GOODMANS	678,679
GRUNDIG	680,697,698,732
HARMON KARDON	683
HITACHI	648,685,686
INNOVATION	730,742,743,744,745,746,747
JVC	662,687
KENWOOD	669,688,689,690,762
LFETEC	643,664,668,675,694,730,742,743,744,745,746,747,801,802,803
LINN	732
LG	663
LUXMAN	691
MAGNUM	730,742,743,744,745,746,747
MARANTZ	695,732
MAJSUI	696,732
MEDION	643,664,668,675,694,730,742,743,744,745,746,747,801,802,803
MEMOREX	648,659,677
MERIDIAN	732
MICROMEGA	732
MICROMAXX	643,664,668,675,694,730,742,743,744,745,746,747,801,802,803
MICROSTAR	643,664,668,675,694,730,742,743,744,745,746,747,801,802,803
MISSION	732
NAD	671,733,735,736,737,800
NAM	732
NAKAMICHI	699,700
ONKYO	640,701,702,703,785,792
PANASONIC	661,705
PHILIPS	647,706,732
PHILIPS CDV	640
PIONEER	673,677,753
PROTON	732
QUAD	732
REALISTIC	648,659,675
ROADSTAR	706,708
ROTEL	732
SABA	648
SAE	732
SANSUNG	768
SANSUI	647,709,710,711,732
SCHNEIDER	627,660,732
SCOTT	659
SHARP	672,712,713,714
SHERWOOD	782
SINGER	803
SKYMASTER	778
SONY	671,716,717,718,741,748,749,750
TANDBERG	732
TCI	643,664,668,675,694,730,742,743,744,745,746,747,801,802,803
TEAC	795
TECHNICS	705,721,763,787
TELEFUNKEN	648
TEVON	643,664,668,675,694,730,742,743,744,745,746,747,801,802,803

THEORE & ANWENDUNG	804
THOMSON	642,648
TOSHIBA	722,723
UNIVERSUM	732
VECTOR RESEARCH	663
VICTOR	687
WELLTECH	675,694,744
YAMAHA	712,720,725,771
YORK	708

Audio Amplifiers/Tuners/Receivers

CYBERCOM	641,775
DENON	779,781
DUAL	641,775,797
ELIA	667,668
GRUNDIG	697,698,727
HARMON KARDON	682
KENWOOD	761
LFETEC	641,775
LINN	657
MARANTZ	727
MEDION	641,775
MICROSTAR	641,775
MICROMAXX	641,775
NAD	735,736,737,738,799,800
ONKYO	785,792,793
PHILIPS	646,727
SANSUI	727
SCHNEIDER	791
SHERWOOD	782
SONY	739,740,755,757,758,759,760
TCI	641,775
TEAC	794,796
TECHNICS	764,777,788
TEVON	641,775
THEORE & ANWENDUNG	805
THOMSON	642,766
YAMAHA	724,752,770,771,772

Audio Tape Players

AWA	790
DENON	780
GRUNDIG	729,698
HARMON KARDON	681
KENWOOD	761
MAGNAVOX	729
MARANTZ	729
NAD	799
ONKYO	784
PHILIPS	729
SANSUI	729
SHERWOOD	783
SONY	754,755,756
TEAC	794
TECHNICS	764,777,786
THOMSON	642
YAMAHA	724,772

MINI Systems

AWA	773,774
CYBERCOM	652,658,704,745
DUAL	652,658,704,745,797
ELIA	693,745
LFETEC	652,658,704,745
MEDION	652,658,704,745
MICROSTAR	652,658,704,745
MICROMAXX	652,658,704,745
PIONEER	753
SAMSUNG	768
SHARP	789
SONY	741
TCI	652,658,704,745
TEVON	652,658,704,745
WELLTECH	652

Misc.

Video CD	640
Audio Comb	644
DBS	645
CDR	647,675

Home Automation

HOME AUTOMATION	821
X-10 (NEC)	820