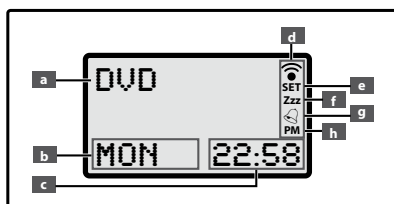


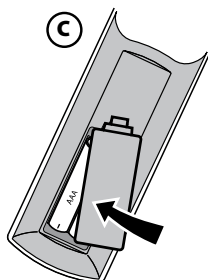
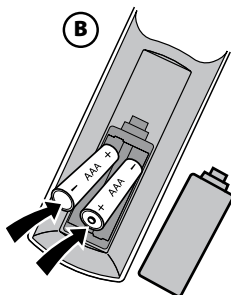
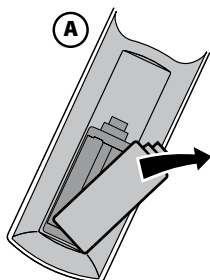
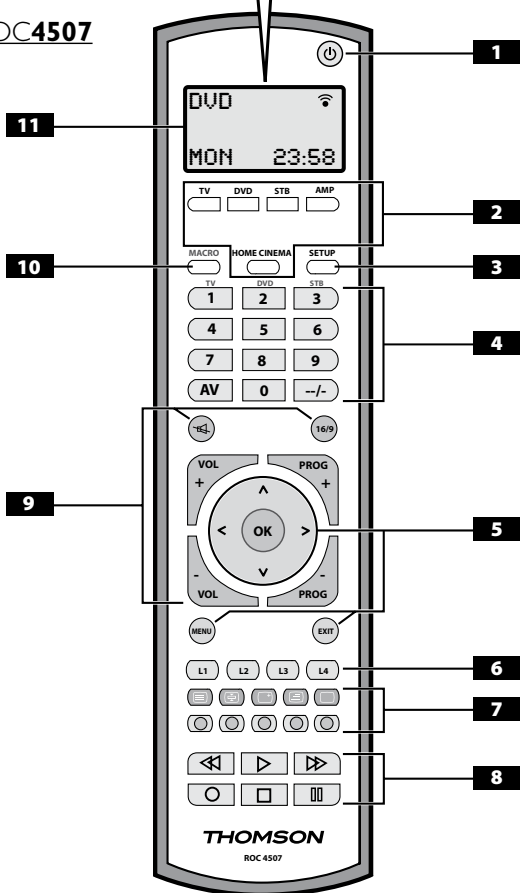
THOMSON

ROC4507

User manual



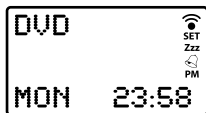
ROC4507



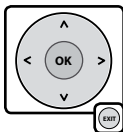
This universal remote control (4 in 1) is compatible with most television sets, DVD players, video cassette recorders, amplifiers and Home Cinema systems, as well as with most digital decoders such as satellite or cable receivers, ADSL decoders, etc. These digital decoders are grouped together under the name STB (Set Top Box).

This remote control was factory-programmed in order to allow you to use it immediately with most devices with Thomson group brand names. We suggest that you thus try it out before programming it using one of the methods in this users manual. But first of all, you must install 2 batteries (AAA - LR03) in it.

Keep this manual and its related documents so that you can refer to them for new programming operations whenever you acquire new devices.



The **LCD display** always shows the active mode of the remote control (TV, DVD, etc.) and the current time. These indications will be displayed as long as the batteries are not worn down.



Navigation keys

The navigation keys serve to scan and then select the functions on the LCD display.

The **EXIT** key serves to return to normal use of the remote control. In some cases, this return to normal is automatic.

Replacing the batteries: The settings for the time, day and date, and the macros are erased while the batteries are replaced. Other settings entered will be preserved.

The keys and their functions

- 1 - On/Standby, or Standby only, depending on the device.
- 2 **Mode keys** - Select the device to be controlled (**TV**, **DVD**, etc.).
- 3 **SETUP** - Programming the remote control.
- 4 Selecting TV channels with one or two digits (-/-), Selecting a plug/external feed (**AV**), choosing a macro-command (1/**TV**, 2/**DVD**, 3/**STB**).
- 5 **MENU**, , , , , **OK**, **EXIT** - Access to the Navigation/Selection, Confirmation menus Exit from the menus.
- 6 **L1**, **L2**, **L3**, **L4** - Additional programmable keys (learning function).
- 7 Activating and using Teletext (Videotext, Fastext, etc.).
- 8 Playing a disc or cassette.
- 9 Volume control, Mute () Change TV channel/station, Display in 16:9.
- 10 Turns on the **MACRO** mode (sequence of automatic commands).
- 11 LCD display
 - a remote control mode (**TV**, **DVD**, etc.),
 - b day, date, (press **SETUP**),
 - c hour, date or code of the device controlled, (press **SETUP** or the mode key),
 - d shows transmission to the device,
 - e **SET** is displayed when the remote control is in programming mode.
 - f Sleep timer is programmed
 - g is displayed when a Timer is programmed
 - h Time format AM (morning) / PM (afternoon) when the time is set in the 12Hr mode. Not shown when in the 24Hr mode.

Note: The mode keys are pre-set for the devices indicated by their icons (**TV** for a TV set, **DVD** for a DVD player, etc.). Your remote control allows you to assign to each key a different mode from the one indicated on it for all of the mode keys except the **TV** key (e.g., DVD-HDD recorder to the **STB** key, etc.).

Start set-up

The first time you install the batteries, instructions will appear in English (**SET USING...KEY**). Press **OK** to display **LANGUAGE? ENGLISH** then select one of the 7 languages using the keys and press **OK**. **CONFIRM xxxxx** (depending on the language selected) is displayed. Press **OK** > **SUCCESS** is briefly displayed, then **CODE SET UP**. When **CODE SET UP** is displayed, you will have a few seconds to set up the codes for the devices you would like to control with your ROC 4507. Refer to stage 3 of the A, B, C, D programming methods to continue the programming procedure.

Note: **TIMEOUT** appears when you have exceeded the allotted time for an operation.

Programming the remote control

The **SETUP** key is used for programming or to access the secondary functions such as, for example, adjusting brightness or contrast on certain TV sets, etc. Programming is required if you wish to control devices of other brands than Thomson.

Access to the secondary functions

Briefly press the **SETUP** key once. The date will show on the screen. Then press the desired secondary function key. The remote control will exit this mode 30 seconds after a key is last pressed or if you press the **EXIT** key.

Programming the remote control

Hold down the **SETUP** key until **CODE SETUP** appears on the display. If you see **SET** on the right side of the display, this confirms that the remote control is being programmed. Pressing **SETUP** repeatedly then allows you to scroll through the settings options in the order given below. You may exit the programming mode by pressing the **EXIT** key or by navigating up to the exit option and confirming by pressing **OK**.

CODE SETUP - Allows you to access one of the 4 programming modes using the **OK** key. You may thus choose to scroll through the list of codes, enter a code, launch a code search or enter a code based on the brand of the equipment to be controlled (the code booklet comes separately).

SYSTEM SETUP - Allows you to access settings for time, date, volume, etc. using the **OK** key.

TIMER SETUP - Allows you to access the Timer settings using the **OK** key.

LEARN SETUP - Allows you to access the learning function of the keys using the **OK** key.

MACRO SETUP - Consists of defining the sequences of automatic commands. Each sequence is made up of commands involving several keys (10 keys maximum).

HOME CINEMA SETUP - The Home Cinema mode is considered to be a «virtual mode» that uses up to 5 groups of keys per mode. By means of this function, users can see all of the keys and devices they most often use regrouped under a single «Virtual mode». (See Home Cinema function, Page 6).

EXIT SETUP - Allows you to exit the programming mode using the **OK** key.

Note 1: After 15 seconds of inactivity, the remote control exits the programming mode.

Note 2: If the remote control is searching for a code or awaiting information, **PLEASE WAIT** is displayed.

Testing the remote control before programming

1. Turn on the device that you wish to control.
2. Press the key that corresponds to the type of device to be controlled:
TV: TV set,
DVD: DVD player/recorder,
STB: satellite, cable, ADSL,
AMP: amplifier
3. Point the remote control at the device to be controlled and try to turn it off using the $\odot$ key. If the device does not go off, you should program the remote control following one of the procedures A, B, C or D described below.

Identifying a code: Press and hold a mode key. The code stored in memory for this mode is displayed (e.g., **DVD.....0768**).

Note: Except for the **TV** key, every mode key (**DVD**, etc.) can be programmed to control a device other than the one indicated on the key. It is thus possible to assign, for example, the **DVD** mode to the **STB** key. You should enter the code that corresponds to the desired brand and device following one of the procedures indicated in this manual.

Programming the remote control Setting up the codes

Method A - Programming by scrolling

Used to enter the codes using the list of codes shown on the display.

1. Turn on the equipment that you wish to control.
2. Hold down the **SETUP** key until **CODE SETUP** appears on the display (for 7 seconds).
3. Press **OK** once to display **SCROLL A LIST OF CODES**.
4. Press **OK** once to display **SELECT A MODE KEY**.
5. Press once on the key of the device to be controlled (**TV**, **DVD**, etc.) to display **SELECT DEVICE TV?**
6. Using the navigation keys ($\blacktriangle$, $\blacktriangledown$), select the device (**DVD**, etc.) then confirm using **OK**. (for the TV mode key, only **TV** may be selected). The first brand name and the first code are displayed (e.g.: **ADMIRAL, 0000**).
7. Select the brand using the navigation keys $\blacktriangle$, $\blacktriangledown$, or by selecting the 1st letter of the brand of your device using keys **2-9** (as on a mobile phone: 2=abc, 3=def, etc.) (e.g.: **THOMSON : 8** $\blacktriangleright$).
8. Point the remote control at the device and try out various keys, for example **VOL +/-**, **PROG +/-**, etc.
9. If the device responds, store the code using **OK**.
10. If the device does not respond, change the code using the $\blacktriangle$, $\blacktriangledown$ keys and try controlling the device again.
11. If you have tried all of the codes for your brand and the device still does not respond, try Method C (programming by code search).

Method B - Programming by entering the code

Codes from the separate list (code tables).

1. Turn on the equipment that you wish to control.
2. Hold down the **SETUP** key until **CODE SETUP** appears on the display (for 7 seconds).
3. Press **OK** once to display **SCROLL A LIST OF CODES**.
4. Using the navigation keys ($\blacktriangle$, $\blacktriangledown$), display **ENTER THE CODES** then confirm using **OK** in order to display **SELECT A MODE KEY**.
5. Press once on the key of the device to be controlled (**TV**, **DVD**, etc.). The key selected and the code stored in memory for this key are shown on the display (e.g.: **TV.....0166**).
6. Enter one of the 4-digit codes offered on the list received separately.
7. The display briefly indicates **SUCCESS** before exiting the programming mode.

Method C - Programming by code search

Used to manually search for a code in any code library for a family of devices whose code or commercial brand may not be included in the separate list or is filed in another fashion.

1. Turn on the equipment that you wish to control.
2. Hold down the **SETUP** key until **CODE SETUP** appears on the display (for 7 seconds).
3. Press **OK** once to display **SCROLL A LIST OF CODES**.
4. Using the navigation keys ($\blacktriangle$, $\blacktriangledown$), display **SEARCH FOR THE CODES** then confirm using **OK** in order to display **SELECT A MODE KEY**.
5. Press once on the key of the device to be controlled (**TV**, **DVD**, etc.) to display **SELECT DEVICE TV?**
6. Confirm using **OK** to display **TO SEARCH PRESS ...P+** or $\odot$ (for the TV mode key, only **TV** can be selected).
7. Point the remote control at the device to be controlled and try to turn it off using the $\odot$ key.
8. If the device to be controlled goes off, press **OK** to store the code.
9. If the device does not go off, press the $\odot$ again several times until the device goes off. Between two presses on the key, leave time for the device to respond (1-2 seconds).
10. As soon as the device to be controlled goes off, press **OK** to store the code.
11. The display briefly indicates **SUCCESS** before exiting the programming mode.

Note 1: Each time the ($\odot$) key is pressed, the remote control sends a signal to the device. This signal corresponds to a code in the code library stored in the remote control memory. If you go past the required code, use the **PROG** - key to go back (or advance using **PROG +**) inside the code library.

Note 2: the indication **SEARCHING FOR:** remains on display during this mode.

Method D

Programming by search for Brand names

Used to manually search for a brand name (Thomson, Philips, Sony, etc.) in the code library, which generally contains 30 to 40 codes.

1. Turn on the equipment that you wish to control.
2. Hold down the **SETUP** key until **CODE SETUP** appears on the display (for 7 seconds).
3. Press **OK** once to display **SCROLL A LIST OF CODES**.
4. Using the navigation keys ($\blacktriangle$, $\blacktriangledown$), display **USE BRAND CODES** then confirm using **OK** in order to display **SELECT A MODE KEY**.
5. Press once on the key of the device to be controlled (**TV**, **DVD**, etc.) to display **SELECT DEVICE TV?**
6. Confirm using **OK** in order to display **ENTER THE BRAND KEY 1-8** (for the TV mode key, only **TV** can be selected).
7. Refer to the separate list of codes by brand (this list comes separately) and key in the number (1 to 8) that corresponds to the brand of the device to be controlled. **TO SEARCH PRESS P+ OR** $\odot$ is displayed on the screen.
8. Point the remote control at the device to be controlled and try to turn it off by pressing the $\odot$ key once.
9. If the device to be controlled goes off, press **OK** to store the code.
10. If the device does not go off, press the $\odot$ again several times until the device goes off. Between two presses on the key, leave time for the device to respond (1-2 seconds).
11. As soon as the device to be controlled turns off, press **OK** to store the code.
12. The display briefly indicates **SUCCESS** before exiting the programming mode.

Note 1: Each time the ($\odot$) key is pressed, the remote control sends a signal to the device. This signal corresponds to a code in the code library stored in the remote control memory. If you go past the required code, use the **PROG** - key to go back (or advance using **PROG +**) inside the code library.

Note 2: The indication **SEARCHING FOR** remains on display during this mode.

Programming the combo (combined) codes:

for certain combos (TV/VCR, TV/DVD, DVD/VCR, etc.), you will have to press two keys in different modes in order to control the two devices that make up the combo. For example, if you have a TV/DVD Combo, you may have to set a code using the TV key for the TV set AND a separate code (using another mode key) to control the DVD player.

Combo commands:

certain combos (TV/VCR, TV/DVD, DVD/VCR,...) have separate keys on the original remote control for selecting the Combo device that you wish to control. For example, if your Combo is a DVD/VCR, its original remote control may have separate DVD and VCR keys for selecting the combo device you wish to control. You may obtain the equivalent key functions on your remote control using the **Mode** and **SETUP** keys. Supposing that your Combo has a DVD and a VCR, and that its code is programmed in DVD mode, hold down the DVD Mode key for over 1 second in order to send the DVD key command. In order to send the VCR key command, press and quickly release the **SETUP** key, then press and release the DVD Mode key. This procedure may apply regardless of the type of Combo (TV/VCR, TV/DVD, DVD/VCR, etc.), and is available in all modes. This function is not guaranteed for all the codes.

System setup

Using the **SETUP** keys (hold down for 7 seconds), and the navigation keys **▲, ▼, ►, ◀, OK** go to the **SYSTEM SETUP** screen in order to access the settings for volume, time, date, backlighting and deleting options. Then navigate using keys **▲, ▼, ►, ◀, OK**.

Volume control and Mute setup

This remote control allows you to define the mode that the Volume and Mute () keys will control. When it is shipped, this remote control is set so that the Volume and Mute keys control the current mode the remote control is in. If this mode does not have a volume control function, then the Volume and Mute keys automatically control the TV mode.

Volume control and mute setup in one mode

Used to assign to one mode (TV or ...) the Volume and Mute keys () without having to select that mode during daily use.

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **SET CODES** followed by **SYSTEM SETUP** (press **OK**) then **VOL/MUTE CONTROL SETUP**. (press **OK**) then **SET ALL VOL. TO 1 MODE** (press **OK**) then **SET ALL VOL. TO MODE?**
- Press once on the key of the device to be controlled (TV, DVD, etc.).
- The screen briefly displays **PLEASE WAIT** then **SUCCESS** before exiting this setup.

Note: If the mode selected does not itself display the Volume/Mute commands, **VOLUME CONTROL ERROR** is shown on the screen and the remote control exits the setup function and returns to normal operation.

Volume control and mute setup in each mode

Used to assign the Volume and Mute keys () for each mode desired.

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** followed by **SYSTEM SETUP** (press **OK**) then **VOL/MUTE CONTROL SETUP** (press **OK**) navigate up to **SET VOLUME FOR 1 MODE** (press **OK**) then **SET THE VOLUME FOR MODE?**
- Press once on the key of the device to be controlled (TV, DVD, etc.).
- The screen briefly displays **PLEASE WAIT** then **SUCCESS** before exiting this setup.

Note: before using this setting, verify that the mode selected has its own Volume/Mute functions either in the code or by learning; otherwise, the Volume/Mute keys will have no effect.

Resetting the Volume control and mute control

Used to cancel the settings of the preceding paragraphs (return to the default factory-installed settings).

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** followed by **SYSTEM SETUP** (press **OK**) then **VOL/MUTE CONTROL SETUP** (press **OK**) navigate up to **VOL/ MUTE CONTROL RESET**.
- Press **OK** once.
- CONFIRM OK TO RESET** is displayed.
- Press **OK** once to confirm cancellation.
- The screen briefly displays **PLEASE WAIT** then **SUCCESS** before exiting this setup.

Setting the time

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then **SYSTEM SETUP** (press **OK**) and navigate up to **TIME SETUP**.
- Press **OK** once.
- Set the format to 12 or 24 hours using **▲, ▼**, and confirm using **OK**.
- Set the hour then the minutes using **▲, ▼**, (move from hours to minutes using **OK**) and confirm using **OK**.
- The display briefly indicates **SUCCESS** before returning to **CODE SETUP**.

Setting the date

- Using the **SETUP** keys (hold down for 7 seconds) and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** followed by **SYSTEM SETUP** (press **OK**) then navigate up to **DATE SETUP**
- Press **OK** once.
- Using keys **▲, ▼**, and **OK**, successively set the year, month, date and day.
- The display briefly indicates **SUCCESS** before returning to **CODE SETUP**.

Setting the backlight

Used for setting the backlight delay following a key action.

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then **SYSTEM SETUP** (press **OK**) and navigate up to **BACKLIGHT SETUP**.
- Press **OK** once.
- Using keys **▲, ▼** and **OK**, set the backlight time, from 5 to 60 seconds, when **BACKLIGHT TIME?** is displayed.

Note: the default time is 10 seconds. In order to deactivate the backlight function, set the time to 00 and press **OK** once.

- The display briefly indicates **SUCCESS** before returning to **CODE SETUP**.

Setting the LCD display language

Used to select one of the 7 languages offered by your remote control.

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then **SYSTEM SETUP** (press **OK**) and navigate up to **LANGUAGE SETUP**.
- Press **OK** once.
- Using keys **▲, ▼** and **OK**, select the language when **LANGUAGE?** is displayed.
- The display briefly indicates **SUCCESS** before returning to **CODE SETUP**.

Cancelling your settings

Used to reconfigure the remote control to the default settings by erasing all the settings and storage of codes and keys.

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then **SYSTEM SETUP** (press **OK**) and navigate up to **SYSTEM RESET**.
- Press **OK** once.
- Press **OK** once when **CONFIRM OK TO RESET** is displayed.
- The display briefly indicates **PLEASE WAIT** before leaving this setting.

Setting the Timer

Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, go to the **TIMER SETUP** display in order to access the stand-by settings for the TV set and 4 other timers that send sequences of at most 4 keys. Then navigate using keys **▲, ▼, ►, ◀, OK**.

Automatic sleep setup for the TV set

Used to program the sleep setup for a TV set using the TV Sleep Timer mode ("**Zzz**").

1. Turn on the device in TV Mode.
2. Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then navigate up to **TIMER SETUP** (press **OK**) then **TV SLEEP SETUP** (press **OK**) then **TV SLEEP SET**.
3. Press **OK** once.
4. Using keys **▲, ▼** and **OK**, select the number of minutes (from 1 to 90 minutes) before the TV enters sleep mode when **TV SLEEP TIME?** is displayed.
5. The display briefly indicates **SUCCESS** before returning to **CODE SETUP**.
6. Press **EXIT** twice to exit this mode.

Note: The "**Zzz**" symbol is displayed when a TV Sleep Timer is set.

7. Set the remote control down on a table or flat surface at the level of the TV set's infrared receiver with its front end pointed toward the TV set.

Note: to clear the programming, navigate up to **TV SLEEP SETUP** then **TV SLEEP CLEAR**. Press **OK** once when **CONFIRM OK TO CLEAR** is displayed. The display briefly indicates **SUCCESS** before returning to **CODE SETUP**.

Setting the timer

Used to program up to 4 timers. You may assign up to 4 keys to the Timer so that it will activate at the set time (for example, to change the Mode SAT channel over to 123 at 22:35). The first key must always be a mode key. The following keys may not include **▲, ▼, ►, ◀, OK EXIT, MACRO, SETUP**, or any other mode key. Timers may only be set to be activated within the following 24 hour period. Timers are automatically cleared after having been activated. The Timer "**⌚**" symbol is displayed when a Timer is set.

1. Turn on the device in TV Mode.
2. Using the **SETUP** keys, and navigation keys **▲, ▼, ►, ◀, OK** display **CODE SETUP** then **OPTION SETUP** then **TIMER SETUP** (press **OK**) then **TV SLEEP SETUP** then **TIMER X SETUP** (X corresponds to one of the 4 timers).
3. Press **OK** once to display **TIMER X SET**.

Note: Clear the timer if it already contains a program (see below).

4. Using keys **▲, ▼, OK**, select the desired start time (hour and minutes). Press **OK**.
5. **SELECT TIMER X MODE?** is displayed. Using the mode keys, indicate the device to be controlled (**TV, DVD**).
6. The indication **SELECT TIMER X KEY?** is displayed. Press once on the key that corresponds to the desired command (e.g. 1).
7. The indication **SELECT KEY 2** is displayed. Press once on the desired key (e.g. 3) or on **OK** if you do only want to send one command, and go to Point 10, below.
8. The indication **SELECT key 3** is displayed. Press once on the desired key (e.g. 8).
9. The display briefly indicates **SUCCESS** before returning to **CODE SETUP**.
10. Press **EXIT** to exit this mode.
11. Set the remote control down on a table or flat surface at the level of the TV set's infrared receiver with its front end pointed toward the device to be controlled.

Note: the symbol "**⌚**" is displayed when a Timer is set.

Clearing a timer

1. Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK** display **CODE SETUP** then **OPTION SETUP** then **TIMER SETUP** (press **OK**) then **TV SLEEP SETUP** then **TIMER X SETUP** (press **OK**) then **TIMER X CLEAR**.
2. Press **OK** once to display **TIMER X CLEAR**.
3. Press **OK** once to display **CONFIRM OK TO CLEAR**.
4. Press **OK** once.
5. The display briefly indicates **SUCCESS** before returning to **CODE SETUP**.

Key learning

This function is used to copy the functions of keys on other remote controls to the keys on your ROC 4507 in the mode and to the keys of your choice. Your ROC 4507 can store up to 150 keys (depending on the format of the IR code to be learned). Only one original remote control may be stored per Mode (refer to the notes concerning learning). The remote control may also be pre-programmed using one of the codes in the library, and copied keys may be «superimposed» on the key positions selected by the user: The remote control can thus be customised by the user, who uses a pre-programmed code, then learn the key functions from his original IR remote control.

Careful: You may not copy onto the Setup, Home Cinema or Macro keys • All of the commands copied for one mode are erased if an identical or new 4-digit code is entered for this mode (also applies to direct entry of a code, a code search or brand search) • The screen and key backlighting is off during learning.

Advice before you begin:

- Place the remote controls face to face so that the IR LED diodes of the two remote controls are precisely lined up. You may need to adjust the height of the remote controls so that the LED diodes are properly aligned. Verify that the gap between the two remote controls is about 25 mm [1 inch]. Do not change the gap between the two remote controls during the learning of all the keys required for this mode.
- Begin by copying 2 or 3 keys (to get used to it), then perform the "**Clear All Learn Modes**" function (clear all learn modes) before learning the entire keyboard of your original remote control.

How to copy (learn) keys

1. Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then navigate up to **LEARN SETUP** (press **OK**) then **LEARN ONE MODE** (press **OK**) then **SELECT A MODE KEY**.
2. Press **OK** once.
3. Press the desired mode key once (**TV, DVD**, etc.) to display **SELECT A MODE KEY TO LEARN**.
4. Press once on the key of your ROC 4507 to which you wish to copy the code of the original remote control.
5. The indication **LEARNING: PLEASE WAIT** appears.
6. While **LEARNING: PLEASE WAIT** is displayed, hold down the key on the original remote control until **SUCCESS** or **KEY LEARN ERROR** appears on the display before releasing the key on the original remote control (normally after 2-3 seconds).
7. The indication **OK – LEARN MORE or EXIT?** is displayed. To copy another key, press once on **OK** then begin again starting with Step 5 or press **EXIT** once to exit this mode.
8. The display briefly indicates **PLEASE WAIT** before leaving this mode.

Erasing the functions learned in a mode

Erases all the keys copied in a given mode

1. Using the **SETUP** keys, (hold down for 7 seconds) and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then navigate up to **LEARN SETUP** (press **OK**) then **LEARN ONE MODE** then **CLEAR ONE LEARN MODE**.
2. Press **OK** once to display **SELECT A MODE KEY**.
3. Press the desired key (**TV, DVD**, etc.) once to display **CONFIRM OK TO CLEAR**.
4. Press **OK** once.
5. The display briefly indicates **PLEASE WAIT** before leaving this mode.

Erasing functions learned for all modes

Erases all the keys copied (overall erasing is recommended for the first learning)

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then navigate up to **LEARN SETUP** (press **OK**) then navigate up to **CLEAR ALL LEARN MODES**.
- Press **OK** once to display **CONFIRM OK TO CLEAR**.
- Press **OK** once.
- The display briefly indicates **PLEASE WAIT** before leaving this mode.

Notes on learning: Do not try to perform learning directly under fluorescent lights or in weak lighting conditions since this could cause interference with the IR transmissions. Place the remote control at least 1 metre [3 feet] from any light source • Avoid copying the volume and mute keys on your original remote control, unless you are sure that they activate the same target device; for example, certain original DVD remote controls may also include a TV volume/mute key: they may have two different types of codes • Avoid learning DVD keys on your original remote control unless you are sure that they activate the same target device; for example, certain original TV remote controls may also include a DVD key: they may have two different types of codes • Copying a key may take up to 3 seconds. Do not release the key being copied unless the "Success" or "Key Learn Error" screens are displayed.

If copying the first or second keys for a certain mode constantly cause errors, use the following procedure:

- End the learning session by pressing the **EXIT** key.
- Clear the commands learned for this mode.
- Verify that the IR LED's are properly aligned between the two remote controls.
- Adjust the gap between the two remote controls so as to reduce or increase the distance (from 15 mm to 50 mm [1/2 to 2"]).
- Try learning the original remote control again for this mode.

If the problem continues for the same key, verify that the key on the original remote control was properly learned; does it send the signals? Does it activate the target device? Try copying this key using a different mode. If the learning is correct, the type of code may be different from the others and cannot be copied in the same mode.

Macro commands

This function permits storing sequences of commands using the **MACRO** key. You can program and store up to 3 sequences of successive keystrokes for several keys of your choice. By pressing the respective Macro digital key, this sequence of successive keystrokes (IR commands) is sent. Any sequence of successive keystrokes performed frequently may be reduced to only two commands (**MACRO** key plus one of the **1, 2** or **3** keys). For example, by pressing **MACRO** and then only one key, you can turn on your TV set, display your favorite channel, turn on your VCR and start a recording, etc. You can store a sequence of 10 commands for each **1, 2** or **3** key.

How to set up a macro

Tip: Set up your macro on a sheet of paper by writing down the series of 10 keystrokes (maximum) that it is composed of. As an example, if you want to turn on your TV set to Channel 3 and then turn on a satellite receiver to Channel 5, you should write down: **MACRO, 1** (for storage for this key), **TV (⏏), 3, SAT (⏏), 5, MACRO**.

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then navigate up to **MACRO SETUP** (press **OK**) then **MACRO KEY SET** (press **OK**) then **SELECT A MACRO KEY**.
- Press once on the **1, 2** or **3** key to which you wish to assign the macro.
- The indication **SELECT MACRO X MODE?** appears.
- Press once on the desired mode key (**TV, DVD**, etc.) to select the device that will receive the command **SELECT MACRO X KEY?** is displayed.

Note: The first key in the Macro sequence must always be a mode key.

- Press each of the keys in order that make up the macro.
- Store the macro by pressing the **MACRO** key once.
- The display briefly indicates **PLEASE WAIT** before leaving this mode.

Note: the Macro is automatically stored the 10th time the key is pressed.

- The display briefly indicates **SUCCESS** before leaving this mode.

How to clear a macro

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then navigate up to **MACRO SETUP** (press **OK**) then **MACRO KEY CLEAR** (press **OK**) then **SELECT A MACRO KEY**.
- Press once on key **1, 2** or **3** of the macro to be cleared to display **CONFIRM OK TO CLEAR**.
- Press **OK** once.
- The display briefly indicates **SUCCESS** before leaving this mode.

How to use a macro

In normal operation, to activate the Macro, press and release the **MACRO** key, then (within 20 seconds) press and release key **1, 2** or **3** to display **MACRO X** while the Macro sequence is being run and remote control returns to normal function. While the Macro is being executed, the remote control must be pointed at the devices to be controlled.

Note: if there is no Macro stored for the number key selected, "Macro X Void" is displayed.

Notes on macros: The time elapsed between each automatic command during the execution of a macro is 1/2 second.

For certain commands, you may have to add pauses in a macro sequence (for example, to allow the TV set to warm up). These pauses may be adjusted by using the **PAUSE** key, followed by a number of seconds from 1 to 9. The first key stored in a Macro sequence must be a Mode key (**TV**, etc.). The **SETUP, HOME CINEMA** and **MACRO** keys may not be included in a Macro. Press **SETUP** in order to exit **Macro Setup**.

Home Cinema Function

The Home Cinema function uses up to 5 devices with one mode key: the **HOME CINEMA** key. The 5 devices correspond to the five mode keys (**TV, DVD, AMP...**) that will be associated with predefined keys. The keys are:

- The 2 program keys **PROG + / -**.
- The 3 volume **VOL + / -** keys and the mute (⏏) key.
- The 6 run keys **Play, Pause, Stop, Fast Forward, Fast Rewind** and Record **⏮, ⏭, ⏪, ⏩, ⏹, ⏸, ⏮, ⏭, ⏪, ⏩, ⏹, ⏸**.
- Directional keys: up, down, right and left **▲, ▼, ►, ◀** and the **MENU, EXIT, OK** keys.
- For the remaining keys: "base" mode **HOME CINEMA** (any one of the other modes).

Example: In Home Cinema mode, you can set up the **PROG+/-** keys to control the satellite receiver, the **VOL + / -** and (⏏) keys to control the amplifier, the Run keys (**PLAY, PAUSE**, etc.) to control the DVD player, the **MENU, EXIT**, etc. keys to control the DVD player, and the other keys to control the TV set.

How to program the Home Cinema function

- Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲, ▼, ►, ◀, OK**, display **CODE SETUP** then navigate to **HOME CINEMA SETUP** (press **OK**) then **HOME CINEMA SET** (press **OK**) then **PROG/CHAN KEY GROUP MODE?**.
- Choose a mode key (**TV, DVD**, etc.) for the **PROG + / -** keys.
> **VOLUME & MUTE KEYS MODE?** appears.
- Choose a mode key (**TV, SAT, AMP**, etc.) for the **VOL + / -** keys.
> **RUN KEYS MODE?** appears.
- Choose a mode key (**TV, DVD**, etc.) for the **⏮, ⏭, ⏪, ⏩, ⏹, ⏸, ⏮, ⏭, ⏪, ⏩, ⏹, ⏸** run keys.
> **xxx MENU, OK, EXIT MODE?** appears

5. Choose a mode key (**TV**, **DVD**, etc.) for the navigation keys **MENU**, **EXIT**, **OK**.
> **ALL OTHER KEYS MODE?** appears.
6. Choose a mode key (**TV**, **DVD**, etc.) for the other remote control keys to be used for Home Cinema mode.
The display briefly indicates **PLEASE WAIT** then **SUCCESS** before returning to **CODE SETUP**.

How to delete the Home Cinema function

1. Using the **SETUP** keys (hold down for 7 seconds), and navigation keys **▲**, **▼**, **▶**, **◀**, **OK**, display **CODE SETUP** then navigate to **HOME CINEMA SETUP** (press **OK**) then **HOME CINEMA RESET**.
2. Press **OK** once to display **CONFIRM OK TO RESET**.
3. Press **OK** once.
4. The display briefly indicates **PLEASE WAIT** then **SUCCESS** before returning to **CODE SETUP**.

Notes on the Home Cinema function: the mode keys **SETUP** and **MACRO** are used to exit the **HOME CINEMA** mode. Learning and Macros do not work in the **HOME CINEMA** mode.



Respect the environment and the law!
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 symbol means that your inoperative electronic appliance must be collected separately and not mixed with the household waste • The European Union has implemented a specific collection and recycling system for which producers are responsible • This appliance has been designed and manufactured with high quality materials and components that can be recycled and reused • Electrical and electronic appliances are liable to contain parts that are necessary in order for the system to work properly but which can become a health and environmental hazard if they are not handled or disposed of in the proper way • Consequently, please do not throw out your inoperative appliance with the household waste • If you are the owner of the appliance, you must deposit it at the appropriate local collection point or leave it with the vendor when buying a new appliance • If you are a professional user, please follow your supplier's instructions • If the appliance is rented to you or left in your care, please contact your service provider • Help us protect the environment in which we live !

 **THOMSON HELPLINE**

You can contact **THOMSON** by dialling:
0871 500 0520
(calls to this number will be charged
at 10 pence per minute)

<http://www.thomsonlink.com>

**Characteristics - Caractéristiques - Eigenschaften -
Caratteristiche - Características - Eigenschaften -
Технические характеристики**

Weight = 103 grammes	Peso = 103 grammi	вес = 103 грамм
Poids = 103 grammes	Peso = 103 gramos	
Gewicht = 103 Gramm	Gewicht = 103 gram	

Dimensions - Dimensioni - Abmessungen - Dimensioni - Dimensiones -
Afmetingen - размеры

= 213 x 50 x 21 mm

ROC4507

Model and serial number

THOMSON Sales Europe

46, quai A. Le Gallo

92648 Boulogne Cedex

FRANCE

322 019 464 RCS NANTERRE

<http://www.thomsonlink.com>

CE  **07013MRI © Copyright THOMSON 2007**

Dealer's address



THOMSON

**Universal
remote control**

Code lists

EN**Subcodes****RU****Подкоды****FR****Sous-codes****PL****Kody pomocnicze****DE****Untercodes****CS****Podkódy****IT****Sotto-codici****HU****Alkódok****ES****Subcódigos****SV****Unterkoder****NL****Subcodes****NO****Unterkoder****PT****Sub-códigos****DA****Unterkoder****EL****Υποκωδικοί****FI****Alakoodit****TV**THOMSON
BRANDTTELEFUNKEN
SABA
NORDMENDE
BAIRD
FERGUSONGRUNDIG
BLAUPUNKTNOKIA
FINLUX
ITT, LUXOR
DANTAX, BEKO
PROSONICFOR
FUTUR USEFOR
FUTUR USEPHILIPS
ERRES
PYE
PHILCO
RADIOLASONY, AKAI
PANASONIC
JVC, SHARP
TOSHIBA
DAEWO

1

2

3

4

5

6

7

8

**DVD****VCR**THOMSON
BRANDTTELEFUNKEN
SABA
NORDMENDE
BAIRD
FERGUSONGRUNDIG
BLAUPUNKTNOKIA
FINLUX
ITT, LUXOR
DANTAX, BEKO
PROSONICFOR
FUTUR USEFOR
FUTUR USEPHILIPS
PYE
PHILCO
RADIOLASONY, AKAI
PANASONIC
JVC, SHARP
TOSHIBA
DAEWO

1

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**SAT**THOMSON
BRANDTTELEFUNKEN
SABA
NORDMENDE
BAIRD
FERGUSON

GRUNDIG

NOKIA
FINLUX
ITT
LUXORFOR
FUTUR USEFOR
FUTUR USEPHILIPS
PHILCOPACE
ECHOSTAR

1

2

3

4

5

6

7

8



TV codes

ACME.....	0009
ADA.....	0026
ADC.....	0002,0007
ADMIRAL.....	0019,0108,0002,0001,0047,0000
ADYSON.....	0003
AGAZI.....	0002
AGB.....	0123
AIKO.....	0003,0009,0004
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ARTHUR MARTIN.....	0158
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 MTC 0132
 MULTI SYSTEM 0169
 MULTITECH 0003,0009,0014,0019,0169,0027,0045,
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 NAD 0141
 NAIKO 0099
 NAONIS 0019,0108
 NATIONAL 0064,0101
 NEC 0185,0027,0056
 NECKERMANN 0003,0169,0008,0019,0022,0051,0083,
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 NESCO 0129
 NEW WORLD 0011
 NEWTECH 0009,0051
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 NIKKAI 0002,0003,0164,0004,0011,0051,0169
 NOBLIKO 0003,0014,0043
 NOGAMATIC 0139

NOKIA 0061,0143,0063,0141,0077,0133,0031,
 0021,0132,0142
 NORDMENDE 0111,0127,0036,0045,0051,0126,0139,
 0046,0000,0021,0024
 NORDVISION 0169
 OCEANIC 0141,0111,0142,0021,1089
 OKANO 0083
 ONCEAS 0003
 ONWA 0069
 ORBIT 0051
 ORION 0099,0147,0159,0009,0212,0028,0051,
 0154,0169,0171,0920,0248,0283,0123,
 0142,0030,0013,0062,0075,0026
 ORMOND 0205
 OSAKI 0011,0002,0003,0004,0074
 OSO 0011
 OSUME 0004,0029
 OTTO VERSAND 0003,0169,0008,0001,0027,0051,0076,
 0111,0118,0131,0139,0141,0120,0121,
 0132
 PACKARD BELL 0204,0203
 PAEL 0003
 PALLADIUM 0003,0083,0012
 PANAMA 0002,0003,0009
 PANASONIC 0065,0067,0064,0197,0072,0186,0101,
 0141,0021,0151,0142,0124,0152
 PATHE CINEMA 0003,0083,0131,0037
 PATHE MARCONI 0022,0045,0126,0139,0037,0046
 PAUSA 0009
 PERDIO 0004
 PHILCO 0047,0129,0131,0000,0043
 PHILHARMONIC 0003
 PHILIPS 0200,0088,0217,0202,0020,0169,0003,
 0041,0181,0339,0051,0083,0111,0115,
 0131,0141,0154,0000,0043,0089
 PHOCUS 0042,0095,1064
 PHOENIX 0051,0169,0000
 PHONOLA 0051,0169,0000
 PIONEER 0010,0145,0036,0051,0139,0169,0021
 PLANTRON 0002,0051
 POPPY 0009
 PORTLAND 0245
 PRANDONI-PRINCE 0019,0141,0123
 PRECISION 0003
 PRIMA 0009,0021
 PRINZ 0047
 PRO2 0177,0038,0171,0002,0009,0206,0200,
 0205,0207,0208,0210,0211,0169,0015,
 0042,0044,0047,0048,0049,0061,0063,
 0067,0068,0087,0103,0107,0115,0127,
 0154,0155,0168,0170,0185,0228,0229,
 0209,0218,1005,0894,0343,0924,0933,
 0248,0291

PROFEX.....0009,0141,0043
 PROFILO0171
 PROFI-TRONIC.....0051
 PROLINE0004,0051,0062
 PROSONIC.....0161,0169,0003,0015,0042,0088,0107,
 0200,0068,0245
 PROTECH.....0002,0003,0009,0169,0014,0051,0129,
 0131,0132,0113
 PROVISION0169,0171
 PYE0169,0051,0068
 PYMI0009
 QUASAR.....0129
 QUELLE.....0169,0205,0002,0003,0016,0022,0051,
 0129,0131,0135,0141,0017,0018,0026,
 0030
 QUESTA0027
 RADIOLA0051,0169
 RADIOMARELLI.....0129,0000,0123
 RADIONETTE0016,0018
 RADIOTONE0051,0007
 RANK.....0017,0027
 RBM0017
 RCA0031
 REDIFFUSION0141
 REVOX0051,0169
 REX0019,0002,0108,0157,0021
 RFT0000,0007
 R-LINE0051,0169
 ROADSTAR.....0002,0009,0011,0245
 ROBOTRON.....0000
 RTF.....0000
 SABA0127,0111,0126,0036,0045,0139,0141,
 0245,0142,0046,0000,0123,0021
 SACCs0037
 SAISHO0028,0002,0003,0009,0248,0030,0123,
 0013
 SALORA0019,0031,0047,0061,0107,0108,0118,
 0131,0138,0141,0093,0121,0128,0132,
 0021
 SAMBERS.....0014,0169,0043,0123
 SAMSUNG0090,0104,0009,0051,0172,0083,0002,
 0160,0003,0004,0312,0030,0105,0093
 SANDRA.....0003,0009
 SANSUI0051,0920
 SANYO0004,0006,0031,0003,0027,0016,0018,
 0083,0127,0160,0131,0029,0030,0040,
 0043
 SAVILLE0248
 SBR0041,0169
 SCHAUB LORENZ.....0141,0021,0142
 SCHNEIDER0177,0003,0169,0011,0051,0068,0131,
 0139,0160,0245,0264,0071,0125
 SCHWAIGER1024

SEG0171,0002,0205,0003,0169,0009,0014,
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 SEI-SINUDYNE0014,0013,0021,0026,0075,0123,0000
 SELECO0019,0027,0131,0108,0157,0021
 SENCORA0009
 SENTRA0164
 SHARP0001,0059,0005,0027,0187,0188,0029
 SHORAI.....0026
 SIAREM.....0014,0131,0000,0123
 SICATEL.....0037
 SIEMENS.....0008,0022,0200,0135,0029
 SIERRA0051
 SIESTA0160
 SILVER.....0027
 SINGER.....0014,0131,0129,0228,0000
 SINUDYNE0014,0131,0169,0028,0000,0075,0013,
 0026
 SKANTIC0138,0021
 SKYMASTER.....0016
 SKYWORTH.....0228
 SOLAVOX.....0092,0021
 SONITRON.....0006,0031
 SONOKO0009,0002,0169,0003,0051,0245
 SONOLOR.....0006,0021
 SONTEC.....0051,0169,0160
 SONY0165,0130,0183,0106,0076,0027,0127,
 0009,0004,0182,0029,0030
 SOUND & VISION.....0011,0014
 SOUNDWAVE0051,0169
 STANDARD.....0003,0009,0011,0051,0245
 STARLIGHT0169
 STENWAY0120
 STERN0019,0157,0021
 SUNKAI0009,0026,0062
 SUNWOOD0009,0051
 SUPERLA0003
 SUPERTech0118
 SUPRA0009
 SUSUMU.....0011
 SUTRON.....0009
 SYDNEY.....0003
 SYSLINE.....0169
 TANDBERG0157,0026
 TANDY0001,0003,0004,0011,0133,0021
 TASHIKO0003,0019,0027,0041,0056,0128
 TATUNG.....0051,0003,0004,0169,0123
 TCM0177,0038,0171,0002,0009,0206,1015,
 1017,1119,0205,0207,0208,0210,0169,
 0042,0044,0047,0061,0063,0067,0068,
 0103,0107,0115,0127,0154,0168,0185,
 0211,0228,0209,1005,0343,0924,0933,
 0248,0291
 TEC0003,0009,0129,0131,0133

TECHNICS 0065
 TECHNISAT 0154
 TELEAVIA 0022,0036,0045,0111,0126,0139
 TELEFUNKEN 0166,0111,0127,0190,0022,0035,0163,
 0101,0102,0036,0050,0051,0052,0078,
 0108,0126,0139,0079
 TELETECH 0169,0009,0088,0129,0113
 TELETON 0003,0157,0118,0132
 TENSAT 0011,0168,0018,0051,0026
 TESMET 0051
 TEVION 0177,0038,0171,0002,0009,0206,1015,
 0200,0205,0207,0208,0210,0211,0169,
 0015,0042,0044,0047,0048,0049,0061,
 0063,0067,0068,0087,0103,0107,0115,
 0127,0154,0155,0168,0170,0185,0228,
 0229,0209,0214,0218,1005,1016,0894,
 0343,0924,0933,0248,0291,1064
 TEXET 0003
 THOMSON 0166,0127,0111,0003,0022,0036,0045,
 0176,0101,0102,0050,0051,0052,0126,
 0139,0163,0185,0245,0046
 THORN 0004,0018,0169,0035,0054,0111,0127,
 0141,0164,0037
 TOKAI 0004,0051
 TOKYO 0003
 TOMASHI 0120
 TOSHIBA 0117,0164,0189,0027,0146,0017,0920,
 0082
 TOWADA 0131,0021
 TRIUMPH 0013,0123,0082
 UHER 0051,0157,0021,0043
 ULTRAVOX 0003,0014,0129,0131,0133,0000
 UNITED 0088,0169
 UNITED QUICK STAR 0245
 UNIVERSUM 0102,0002,0016,0018,0051,0061,0169,
 0083,0110,0122,0129,0131,0143
 UNIVOX 0037
 VESTEL 0019,0051,0169,0171,0083,0092,0103,
 0107,0118,0129,0131,0138,0168,0195,
 0205,0021,1014
 VEXA 0169,0009
 VICTOR 0027,0051,0065
 VIDEO SYSTEM 0051
 VIDEOLOGIQUE 0011,0003
 VIDEON 0248
 VIDEOSAT 0129
 VISIOLA 0003
 VISION 0051
 VISOREX 0096
 VISTAR 0133
 VORTEC 0051,0169
 VOXSON 0019,0051,0108,0021,0043,0000
 WALTHAM 0003,0133,0138,0037

WATSON 0051,0169
 WATT RADIO 0003,0014,0131,0037
 WEGA 0000,0027
 WELTBlick 0051,0169
 WESTON 0131
 WHARFEDALE 0099
 WHITE WESTINGHOUSE 0169,0003,0014,0043
 YAKUMO 1012
 YOKO 0009,0011,0051,0169,0002,0003
 YORK 0011
 ZANUSSI 0019,0157,0108
 VIDEON 0248



VCR codes

AIWA 0230,0233,0256,0293,0231,0248,0291
 AKAI 0300,0329,0307,0237,0236,0238,0239,
 0293
 AKIBA 0275
 AKURA 0275,0244,0293
 ALBA 0275,0233,0250,0245,0248,0246,0247
 ALLORGAN 0311
 AMBASSADOR 0250
 AMSTRAD 0253,0231,0254
 ANITECH 0275
 APEX 0949
 ASA 0257,0256
 ASUKA 0275,0257,0231,0256
 BAIRD 0259,0231,0258,0245,0237,0293
 BASIC LINE 0275,0233,0250,0245
 BAUR 0263,0257
 BESTAR 0250,0245
 BLACK PANTHER LINE 0245
 BLAUPUNKT 0263,0257,0262,0260,0309,0325,0271
 BONDSTEC 0250
 BRANDT 0303,0305
 BROKSONIC 0277,0967
 BUSH 0275,0233,0245,0248,0246,0247,0288
 CATRON 0250
 CGE 0231,0293
 CIMLINE 0275,0233
 CINEVISION 0256
 CLATRONIC 0250
 COMBITECH 0248
 CONDOR 0250,0245
 CROWN 0275,0250,0245
 CYBERCOM 0233,0311,0262,0269,0319,0256,0248,
 0291,0338,0905,0906
 CYBERMAXX 0233,0311,0262,0269,0319,0256,0248,
 0291,0338,0905,0906
 CYTRON 0233,0311,0262,0269,0319,0256,0248,
 0291,0338,0905,0906
 DAEWOO 0274,0250,0265,0319,0245,0971

DANSAI.....0275
 DANTAX.....0233
 DAYTRON.....0245
 DE GRAAF.....0266,0257
 DECCA.....0257,0231,0293
 DUAL.....0233,0256,0257,0311,0262,0319,0293,
 0248,0291,0338,0905,0906
 DUMONT.....0266,0257,0231,0258
 ELTA.....0275
 EMERSON.....0231,0256,0301,0339
 ESC.....0245
 ETZUKO.....0275
 FERGUSON.....0294,0259,0271,0278,0293,0281,0305
 FIDELITY.....0311,0231
 FINLANDIA.....0266,0257,0258
 FINLUX.....0266,0298,0257,0231,0258,0293,0237
 FIRSTLINE.....0266,0275,0233,0265,0298,0256
 FISHER.....0258,0279
 FLINT.....0233
 FORMENTI-PHEONIX.....0257
 FRONTECH.....0250
 FUJITSU.....0231
 FUNAI.....0231,0339
 GALAXY.....0231
 GBC.....0275,0250
 GEC.....0257
 GELOSO.....0275
 GENERAL.....0250
 GENERAL TECHNIC.....0262,0233,0311,0248
 GOLDHAND.....0275
 GOLDSTAR.....0231,0256
 GOODMAN.....0275,0250,0259,0256,0231,0245,0283,
 0282
 GO-VIDEO.....0338,0367,0971
 GRAETZ.....0258,0293
 GRANADA.....0257,0266,0240,0258,0271
 GRANDIN.....0275,0250,0256,0231,0245
 GRUNDIG.....0273,0270,0263,0235,0243,0257,0260,
 0272,0275,0286,0287,0290,0315,0271,
 0288
 HAAZ.....0233
 HANSEATIC.....0257,0256
 HCM.....0275,0288
 HINARI.....0275,0233,0248,0288,0301
 HISAWA.....0233
 HITACHI.....0266,0257,0268,0231,0293,0387
 HYPSON.....0233,0275
 IMPEGO.....0250
 IMPERIAL.....0231
 INNO HIT.....0250,0257,0275,0245
 INNOVATION.....0233,0311,0262,0248,0291
 INTERBUY.....0256
 INTERFUNK.....0257,0258

INTERVISION.....0231
 IRRADIO.....0275,0256
 ITT.....0237,0293,0258,0292
 ITV.....0256,0245
 JVC.....0294,0295,0293,0400
 KASUI.....0275
 KARCHER.....0257
 KENDO.....0233,0250,0265,0300,0245,0236,0237
 KENWOOD.....0293
 KORPEL.....0275
 LENCO.....0245
 LEYCO.....0275
 LG.....0231,0256,0261,0907
 LIFE.....0291,0256
 LIFETEC.....0233,0311,0262,0269,0319,0256,0248,
 0291,0338,0905,0906
 LOEWE.....0267,0325,0262,0257,0256,0271
 LOGIK.....0275
 LUMATRON.....0274,0245
 LUXOR.....0298,0258,0237,0281
 MAGNASONIC.....0258
 MAGNAVOX.....0914,0285
 MAGNUM.....0291
 MANESTH.....0275,0265
 MARANTZ.....0257,0271,0281,0299
 MATSUI.....0233,0256,0248,0301
 MEDIATOR.....0257
 MEDION.....0233,0311,0262,0269,0319,0256,0248,
 0291,0338,0905,0906
 MELETRONIC.....0231
 MEMOREX.....0240,0256,0231,0258,0279
 MEMPHIS.....0275
 METZ.....0262,0263,0267,0273,0325,0271
 MICROMAXX.....0233,0311,0262,0269,0319,0256,0248,
 0291,0338,0905,0906
 MICROSTAR.....0233,0311,0262,0269,0319,0256,0248,
 0291,0338,0905,0906
 MIGROS.....0231
 MINERVA.....0263,0271
 MITSUBISHI.....0298,0257,0289,0294,0231
 MULTITECH.....0275,0250,0257,0231
 MURPHY.....0231
 NATIONAL.....0262,0260
 NEC.....0294,0293,0299
 NECKERMANN.....0257,0293,0301
 NEI.....0257
 NESCO.....0275
 NIKKAI.....0250,0302
 NOKIA.....0240,0300,0307,0258,0237,0292,0293
 NORDMENDE.....0294,0293,0303,0305
 OCEANIC.....0240,0231,0293
 OKANO.....0233,0300
 ORION.....0234,0233,0304,0248,0283,0301,0246

ORSON0231
 OSAKI0275,0231,0256
 OTTO VERSAND0257
 PALLADIUM0275,0300,0256,0271,0293
 PANASONIC0262,0267,0260,0314,0321,0325,0970
 PATHE CINEMA0301
 PATHE MARCONI0293
 PENTAX0266
 PERDIO0231
 PHILCO0299
 PHILIPS0235,0257,0290,0315,0327,0286,0285,
 0242,0271,0293,0969
 PHONOLA0257
 PIONEER0294,0257,1084
 POLAROID0949
 PORTLAND0250,0245
 PRINZ0231
 PRO20233,0311,0262,0269,0319,0256,0248,
 0291,0338,0905,0906
 PROFEX0275
 PROLINE0231,0288
 PROSONIC0233,0245
 PYE0257
 QUARTZ0258
 QUELLE0257,0263,0258,0231,0271,0301
 RADIOLA0257
 REX0293
 RFT0250,0257
 ROADSTAR0275,0256,0245
 SABA0324,0245,0281,0293,0303,0305
 SAISHO0275,0233,0248,0301
 SALORA0298,0258,0237,0292
 SAMSUNG0311,0312,0338,0963
 SAMURAI0250
 SANSUI0294,0244,0293,0920
 SANYO0284,0258,0279
 SAVILLE0248
 SBR0257
 SCHAUB LORENZ0258,0237,0231,0293
 SCHNEIDER0275,0233,0265,0250,0257,0256,0231,
 0264,0245
 SEG0275
 SEI-SINUDYNE0257
 SELECO0293
 SENTRA0250
 SENTRON0275
 SHARP0240,0241,0328,0281
 SHINTOM0275,0258
 SHIVAKI0256
 SIEMENS0263,0256,0258,0271
 SILVA0256
 SINUDYNE0257
 SOLAVOX0250

SONOKO0245
 SONOLOR0240
 SONTEC0256
 SONY0232,0308,0309,0310,0313,0249,0251,
 0255,0402
 STANDARD0245
 STRONG0244
 SUNKAI0233
 SUNSTAR0231
 SUNTRONIC0231
 SUNWOOD0275
 SYLVANIA0339,0231
 TAISHO0233
 TANDBERG0263
 TASHIKO0240,0231
 TATUNG0257,0231,0293
 TCM0233,0256,0311,0262,0269,0319,0375,
 0248,0291,0338,0905,0906
 TEC0250
 TECHNICS0262,0260
 TELEAVIA0293
 TELEFUNKEN0306,0294,0324,0295,0323,0280,0293,
 0303,0305
 TENOSAL0275
 TENSAI0275,0231,0256
 TEVION0233,0311,0262,0269,0319,0256,0248,
 0291,0338,0905,0906
 THOMSON0294,0324,0295,0323,0326,0245,0242,
 0293,0305
 THORN0258,0293,0301
 TIVO0242
 TOKAI0275,0256
 TONSAI0275
 TOSHIBA0320,0257,0265,0298,0319,0362,0293
 TOWADA0275
 TOWIKA0275
 TRIUMPH0301
 TVA0250
 UHER0256
 UNITED QUICK STAR0245
 UNIVERSUM0290,0235,0263,0257,0315,0256,0231,
 0237,0239,0253,0271
 VICTOR0294,0295
 VIDEON0233,0262,0311,0248
 WELTBlick0256
 YAMISHI0275
 YOKAN0275
 YOKO0275,0250,0256
 ZENITH0256



COMBO

TV/VCR

AIWA.....	0248,0291
ALBA.....	0245,0248
BAIRD.....	0245
BASIC LINE.....	0245
BESTAR.....	0245
BLACK PANTHER LINE.....	0245
BUSH.....	0245,0248
COMBITECH.....	0248
CONDOR.....	0245
CROWN.....	0245
CYBERCOM.....	0248,0291
CYBERMAXX.....	0248,0291
CYTRON.....	0248,0291
DAEWOO.....	0245
DAYTRON.....	0245
DUAL.....	0248,0291
ESC.....	0245
GENERAL TECHNIC.....	0248
GOLDSTAR.....	0261
GOODMANS.....	0245,0283
GRANDIN.....	0245
HINARI.....	0248
INNO HIT.....	0245
INNOVATION.....	0248,0291
ITV.....	0245
KENDO.....	0245
LENCO.....	0245
LG.....	0261
LIFE.....	0291
LIFETEC.....	0248,0291
LUMATRON.....	0245
MAGNUM.....	0291
MATSUI.....	0248
MEDION.....	0248,0291
MICROMAXX.....	0248,0291
MICROSTAR.....	0248,0291
ORION.....	0248,0283
PORTLAND.....	0245
PRO2.....	0248,0291
PROSONIC.....	0245
ROADSTAR.....	0245
SABA.....	0245
SAISHO.....	0248
SAMSUNG.....	0312
SAVILLE.....	0248
SCHNEIDER.....	0245,0264
SONOKO.....	0245
STANDARD.....	0245

TCM.....	0248,0291
TEVION.....	0248,0291
THOMSON.....	0245
UNITED QUICK STAR.....	0245

TV/DVD

DVD code & TV code

AUDIOSONIC.....	1062 & 0090
BEKO.....	1064
BROKSONIC.....	0920
CYBERCOM.....	0343 & 0228, 0924 & 0210, 0933 & 0228
CYBERMAXX.....	0894, 0343 & 0228, 0924 & 021, 0933 & 0228
CYTRON.....	0894, 0343 & 0228, 0924 & 0210, 0933 & 0228
DUAL.....	0343 & 0228, 0924 & 0210, 0933 & 0228
DURABRAND.....	0933 & 0228, 1085 & 1006, 1085 & 1007, 1086 & 1008, 1087 & 1008, 1088 & 1009
H & B.....	0343 & 0228
INTERTRONIC.....	0894
LIFETEC.....	0894, 0343 & 0228, 0924 & 0210, 0933 & 0228
MEDION.....	0894, 0343 & 0228, 0924 & 0210, 0933 & 0228
MEMOREX.....	0920
MICROMAXX.....	0894, 0343 & 0228, 0924 & 0210, 0933 & 0228
MICROSTAR.....	0894, 0343 & 0228, 0924 & 0210, 0933 & 0228
MT LOGIC.....	1062 & 0090
OCEANIC.....	1089 & 1011
ORION.....	0920
PHILIPS.....	0339 & 0181
PHOCUS.....	1064
PRO2.....	0894, 0343 & 0228, 0924 & 0210, 0933 & 0228
SANSUI.....	0920
TCM.....	0343 & 0228, 0924 & 0210, 0933 & 0228, 1119
TEVION.....	0894, 0343 & 0228, 0924 & 0210, 0933 & 0228, 1064
TOSHIBA.....	0920

DVD/VCR

DVD code & VCR code

APEX.....	0949
BROKSONIC.....	0920 0967
CINEVISION.....	0375 & 0256

CYBERCOM	0338, 0375 & 0256
CYBERMAXX	0338, 0896, 0906, 0375 & 0256
CYTRON	0338, 0896, 0906, 0375 & 0256
DAEWOO	0971
DUAL	0338, 0375 & 0256
EMERSON	0339 & 0231, 0375 & 0256
FUNAI	0339 & 0231
GO-VIDEO	0338, 0367, 0971
GOLDSTAR	0375 & 0256
HITACHI	0387 & 0231
JVC	0400
LG	0907, 0375 & 0256
LIFETEC	0338, 0896, 0906, 0375 & 0256
MAGNAVOX	0914 & 0285
MEDION	0338, 0896, 0906, 0375 & 0256
MICROMAXX	0338, 0896, 0906, 0375 & 0256
MICROSTAR	0338, 0896, 0906, 0375 & 0256
PANASONIC	0970
PHILIPS	0969 & 0285
PIONEER	1084
POLAROID	0949
PRO2	0338, 0896, 0906, 0375 & 0256
SAMSUNG	0338, 0963
SANSUI	0920
SANYO	0378 & 0258
SONY	0402
SYLVANIA	0339 & 0231
TCM	0338, 0375 & 0256
TEVION	0338, 0896, 0906, 0375 & 0256
TOSHIBA	0362
ZENITH	0375 & 0256



SATELLITES

SAT

AKAI	0552
ALBA	0508,0562,0405,0407
ALDES	0408,0409
ALLSAT	0462,0410,0552
ALLSONIC	0408,0428
AMPERE	0422
AMSTRAD	0584,0555,0541,0415,0416,0417,0419
ANKARO	0408,0428,0424
ANTTRON	0405,0407
APOLLO	0405
ARCON	0415,0422,1155,1144,1153,0424,0463
ARMSTRONG	0419
ASAT	0552
AST	0435
ASTON	0594,0406
ASTRA	0429,0419,0431,0432,0502

ASTRO	0428,0439,0569,0407,0409
AUDIOTON	0462,0407
AURORA	0602
AUSTAR	0602,0643,0642
AXIS	0428,0415,0432,0456
BARCOM	0424
BEST	0428,0424
BLAUPUNKT	0439
BOCA	0419,0502
BRAIN WAVE	0444,1131
BRANDT	0565,0566,0567,0574
BSKYB	0584,0555
BT SATELLITE	0574
BUSH	0508,0562,0410
CANAL SATELLITE	0569,0599
CANAL+	0569,0599
CHAPARRAL	0507
CHESS	0547,0586
CITYCOM	0508,0640,0459
CLATRONIC	0444
CLEMENS KAMPHUS	0491
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TNT : Télévision Numérique par Satellite (F)

DTT : Television Digitale Terrestre (I)

TDT : TV Digital Terrestre (E)

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 0902,0903,0904,0923,0893,0959,1069,
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 LUMATRON.....0332,0342,1051,0350,0383,0380
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 MASTEC.....0335
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 0340,0341,0342,0345,0352,0358,0371,
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 0901,0902,0903,0904,0923,0893,0959,
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 0902,0903,0904,0923,0893,0959,1069,
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 REDSTAR 0894
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 0371,0891,0892,0895,0896,0897,0898,
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 0966,0893,0959,1065,1068,1069,1070,
 1071,1067,1066,1117,1118,0890,0905,
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YAMAHA	0364,0388,0979,0980,0370
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MICROMAXX	0895,0905,0906,0923,0959,1071,1117
MICROSTAR	0895,0905,0906,0923,0959,1071,1117
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CYBERMAXX	0843,0664,0668,0674,0675,0694,0730, 0742,0743,0744,0745,0746,0747,0801, 0802,0803,0807,0809,0818,0819
CYTRON	0843,0664,0668,0674,0675,0694,0730, 0742,0743,0744,0745,0746,0747,0801, 0802,0803,0807,0809,0818,0819
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 MICROMEGA 0732
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 SABA 0848
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 SCOTT 0859
 SHARP 0672,0712,0713,0714

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 SINGER 0803
 SKYMASTER 0778
 SONY 0671,0716,0717,0718,0741,0748,0749,
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 TANDBERG 0732
 TCM 0843,0664,0668,0674,0675,0694,0730,
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 0802,0803,0807,0809,0823,0824,0825
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 0802,0803,0807,0809,0813,0814,0816,
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 THEORIE & ANWENDING 0804
 THOMSON 0842,0848
 TOSHIBA 0722,0723
 UNIVERSUM 0732
 VECTOR RESEARCH 0663
 VICTOR 0687
 WELLTECH 0675,0694,0744
 YAMAHA 0712,0720,0725,0771
 YORX 0708

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Audio Amplifiers/Tuners/Receivers

CENTRUM 0692
 CRITERION 0775
 CYBERCOM 0841,0775,0776
 CYBERMAXX 0841,0775,0776
 CYTRON 0841,0775,0776
 DENON 0779,0781
 DUAL 0841,0775,0797
 ELTA 0667,0668
 GRUNDIG 0697,0698,0727
 HARMON/KARDON 0682
 KENWOOD 0761
 LIFETEC 0841,0775,0776
 LINN 0857
 MARANTZ 0727
 MEDION 0841,0775,0776
 MICROMAXX 0841,0775,0776
 MICROSTAR 0841,0775,0776
 NAD 0735,0736,0737,0738,0799,0800
 NUVO 0862,0863,0864,0865
 ONKYO 0785,0792,0793
 PHILIPS 0846,0727
 PRO2 0841,0775,0776
 SANSUI 0727
 SCHNEIDER 0791
 SHERWOOD 0782
 SONY 0739,0740,0755,0757,0758,0759,0760
 TCM 0841,0775,0776,0806

TEAC	0794,0796
TECHNICS	0764,0777,0788
TEVION	0775,0776,0815,0817,0841
THEORIE & ANWENDING	0805
THOMSON	0842,0766
XANTECH	0867
YAMAHA	0724,0752,0770,0771,0772

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AIWA	0790
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GRUNDIG	0729,0698
HARMON KARDON	0681
KENWOOD	0761
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MARANTZ	0729
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PHILIPS	0729
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SHERWOOD	0783
SONY	0754,0755,0756
TEAC	0794
TECHNICS	0764,0777,0786
THOMSON	0842
YAMAHA	0724,0772

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CYBERMAXX	0852,0858,0704,0745,0808,0810,0811,0812,0820,0819
CYTRON	0852,0858,0704,0745,0808,0810,0811,0812,0820,0819
DUAL	0852,0858,0704,0745,0797,0820,0819
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MEDION	0852,0858,0704,0745,0808,0810,0811,0812,0820,0819
MICROMAXX	0852,0858,0704,0745,0808,0810,0811,0812,0820,0819
MICROSTAR	0852,0858,0704,0745,0808,0810,0811,0812,0820,0819
PIONEER	0753
PRO2	0852,0858,0704,0745,0808,0810,0811,0812,0820,0819
SAMSUNG	0768
SHARP	0789
SONY	0741
TCM	0852,0858,0704,0745,0808,0810,0820,0819,0694,0823,0824,0825
TEVION	0852,0858,0704,0745,0808,0810,0811,0812,0820,0819,0821,0822
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MITSUBISHI	0318
NAD	0318
PIONEER	0318
TELEFUNKEN	0318
THORN	0322

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HOME AUTOMATION	0998
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CANAL+	0599
CONRAD	1156
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 MICROMAXX.....0905,0412,0423,0514,0644,0653,1130,
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 PACE.....0555,0453
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 SKYMASTER.....0506,1165,1159,1160
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 SONY.....0986
 TCM.....0334, 0344 & 0775
 TEVION.....0334, 0372, 0892, 0917, 0918, 0344 &
 0775, 1069, 1066, 1118

HTIB (Home Cinema System)

DVD code & AUDIO code

AIWA.....0377
 AMW.....1054
 CENTRUM.....0927
 COBY.....0948
 CRITERION.....0344 & 0775

Universal remote control

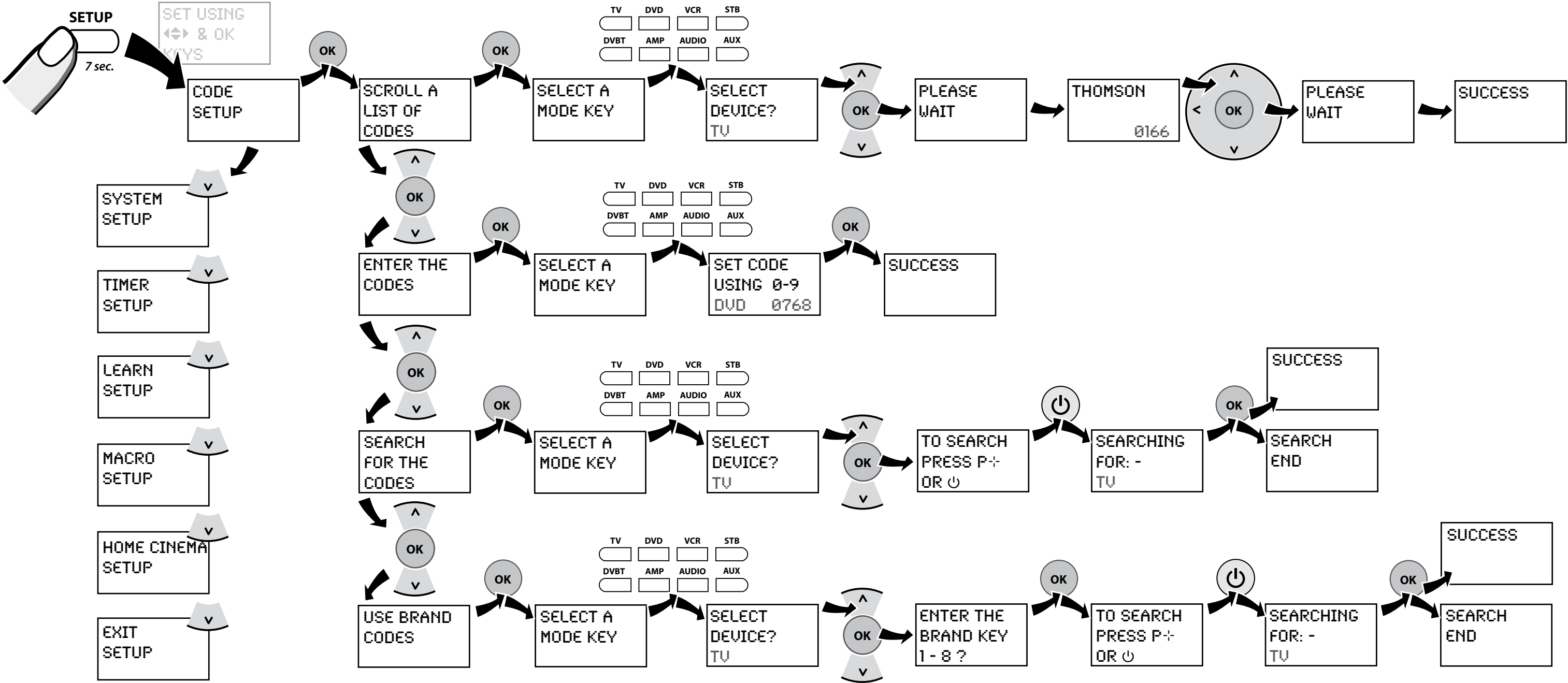
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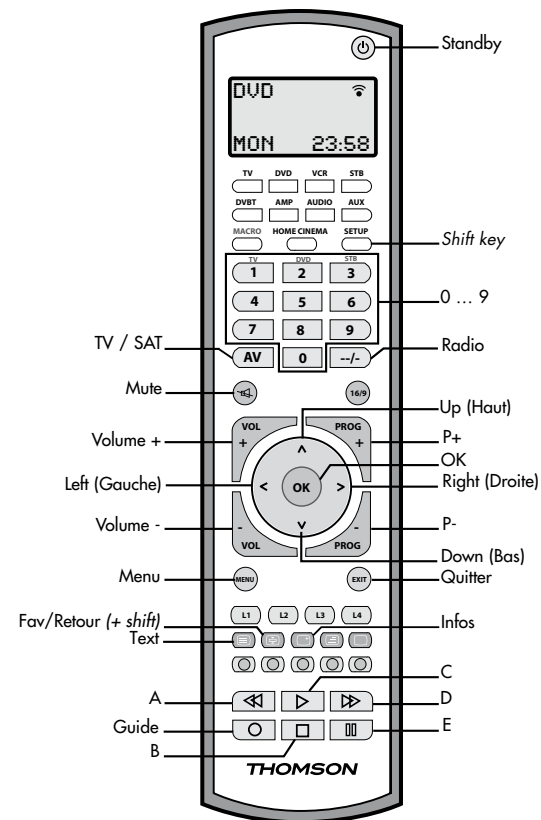
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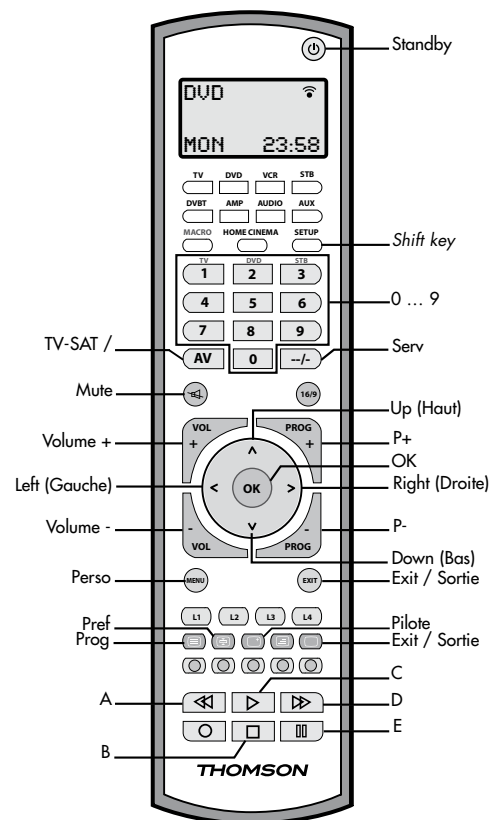
CANAL SATELLITE

TELE +

PREMIERE

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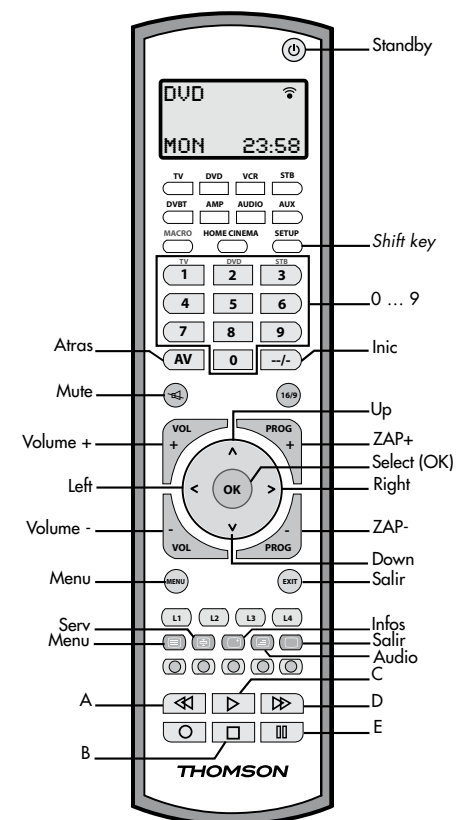
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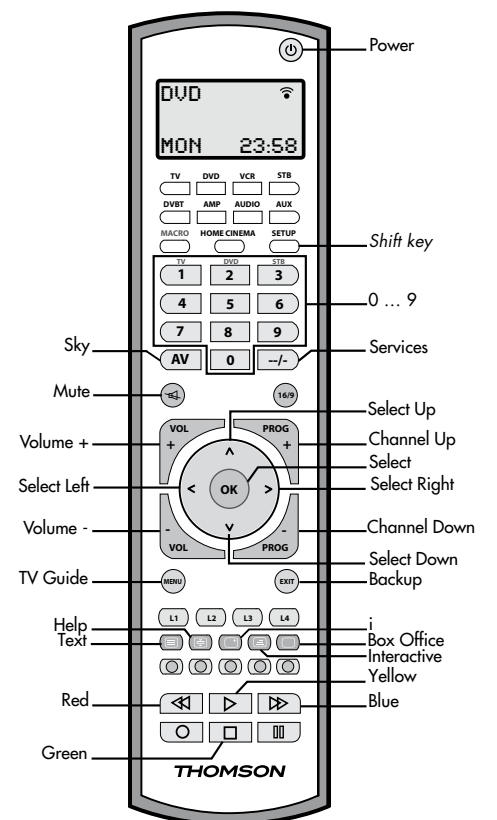
ROC8507 / 6507 / 4507



SKY

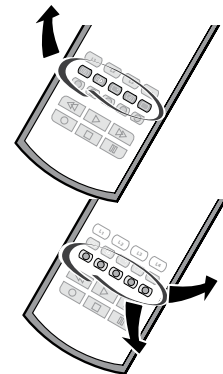
CODE 0584
(Logo registered by SKY DIGITAL)

ROC8507 / 6507 / 4507



TÉLÉTEXTE / VIDEOTEXT / FASTEXT / TOP TEXT / FLOF TEXT

- GB**
- Access the contents
 - To stop scrolling pages
 - Info key
 - Mixed teletext
 - Back to TV programme
- I**
- Accesso al sommario
 - Stop alternanza pagine
 - Tasto info
 - Teletexto misto
 - Ritorno al programma TV
- F**
- Télétex-te Oui/Non
 - Arrêt de l'alternance des pages
 - Touche info
 - Téletexte mixte
 - Retour au programme TV
- D**
- Zugriff auf den Inhalt
 - Stoppen der durchlaufenden Seiten
 - Info-Taste
 - Teletext- gemischt
 - Zurück zum Fernsehprogramm
- NL**
- Toegang tot de inhoudsopgave
 - Stopzetten van de paginaopvolging
 - Toets info
 - Gemengde teletext
 - Terug naar het TV-programma
- RU**
- Телетекст Да/Нет
 - Остановка при наличии нескольких страниц
 - Кнопка получения информации
 - Смешанный телетекст
 - Возврат к телеканалу

**FASTEXT**

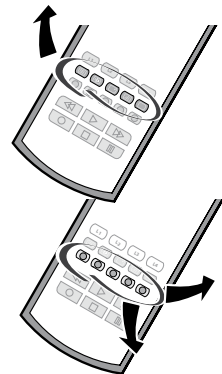
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- GB** Access to headings
- F** Accès aux rubriques
- D** Zugriff auf die Rubriken
- I** Accesso alle rubriche
- E** Acceso a las rúbricas
- NL** Toegang tot de rubrieken
- RU** Доступ к рубрикам

TOPTXT

-
- GB** Blue: Access to headings
Yellow: Access to articles
- F** Bleue : Accès aux rubriques
Jaune : Accès aux articles
- D** Blau: Zugriff auf die Rubriken
Gelb: Zugriff auf die Artikel
- I** Blu : Accesso alle rubriche
Giallo : Accesso agli articoli
- E** Azul: Acceso a las rúbricas
Amarillo: Acceso a los artículos
- NL** Blauw: Toegang tot de rubrieken
Geel: Toegang tot de artikelen
- RU** Синяя: Доступ к разделам
Желтая: Доступ к статьям

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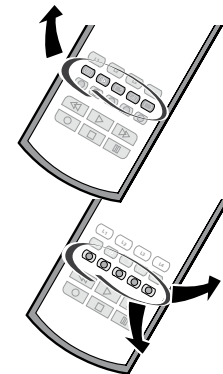
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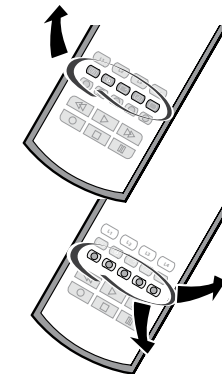
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