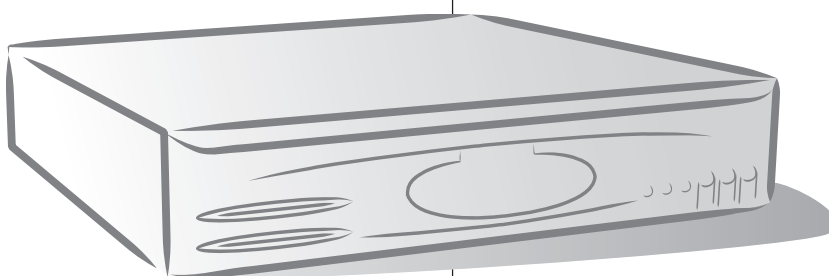
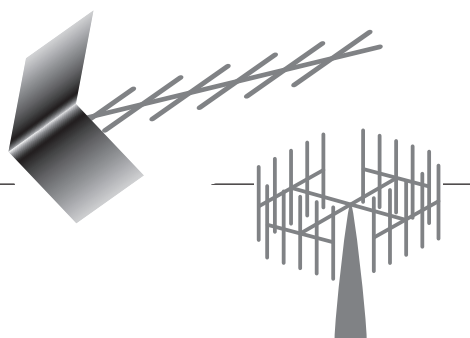




DIGITAL TERRESTRIAL TV RECEIVER

ITD 602



USER MANUAL

ENGLISH



 **SAGEM**
Technology in action







CONGRATULATIONS!

This new generation of Set Top Box gives you access to new digital services and makes it easy for you and your family to choose the very best experiences of Digital TV.

Once you have connected your Set Top Box and adjusted it according to your preference, you can enjoy all the services.

You can update your Set Top Box through the antenna stream as new functions and services become available.

SAGEM Set Top Box operates a policy of continuous development. Therefore we reserve the right to make changes and improvements to any of the products described in this manual without any prior notice.

The EMC Directive 89/336/EEC is applied to this product.

SAGEM is a registered trademark of SAGEM SA

Copyright © SAGEM SA

All rights reserved





CONTENTS

1. GENERAL INFORMATION 6

1-1 Safety	6
1-2 Packing list	6
1-3 Connection to the mains supply	6

2. GENERAL DESCRIPTION 7

2-1 Front panel description	7
2-2 Rear panel description	8
2-3 Remote Control Unit	8
2-3-1 Installing batteries	8
2-3-2 RCU operation	9

3. CONNECTIONS 10

3-1 Introduction	10
3-2 Connection to TV set, VCR and antenna	10
3-3 Hi-Fi amplifier	11

4. FIRST TIME INSTALLATION 12

4-1 General information	12
4-2 Start the first time installation	12
4-3 Language	12
4-4 Country	13
4-5 Channel search in progress	13
4-6 Aerial failure	13

5. ADVANCED BOX SETTINGS 14

5-1 Preliminary	14
5-2 Channel search: auto tune	15
5-3 Channel search: manual tune	16
5-4 Audio/video installation	17
5-4-1 TV	17
5-4-2 VCR	17
5-5 Reinstallation	18





CONTENTS

6. USER SETTINGS 19

6-1 Language setting	19
6-2 User preferences (appearance preferences)	19
6-3 Time setting	20
6-4 Favourite lists installation	21
6-5 Locking	22
6-6 Change protection code	23

7. USING YOUR SET TOP BOX 24

7-1 Changing channels	24
7-2 Program information	25
7-3 Extended program information	25
7-4 TV channels list	26
7-5 Audio language and subtitle language selection	26
7-5-1 Audio language	26
7-5-2 Subtitle language	27
7-6 Volume adjustment	27
7-7 TV mode	27
7-8 Teletext	27
7-9 Timer programming	27
7-9-1 Sleep timer	28
7-9-2 Events timer	28
7-10 Enhanced program guide	29
7-11 Radio mode	30
7-12 Set Top Box enhancement	30
7-13 Troubleshooting	31
7-14 Outline specifications	32
7-15 Guarantee (UK Terms and Conditions)	33





1. GENERAL INFORMATION

1-1 SAFETY

Use of your Set Top Box is subject to safety measures designed to protect users and their environment. In order to keep your Set Top Box high performance, it should:

- be located in an indoor place to protect it from lightning, rain and direct sunlight,
- be located in a dry and well-ventilated place,
- be protected from damp,
- be installed in a way to avoid violent shocks,
- be plugged directly into the mains with the cords provided with the Set Top Box. The use of an extension cord is not recommended,
- do not place anything on top of your Set Top Box to permit ventilation.

Be careful

- A contact with a liquid would lead to deterioration of your Set Top Box, which could cause failure. Never open your Set Top Box, in case of technical problem contact qualified service personnel.
- Like any electronic device, the Set Top Box contains fragile components. It should thus be installed in a place where it is unlikely to fall and out of reach of children.
- The case of the Set Top Box can be cleaned with a soft and dry cloth. Do not use any type of abrasive pad, scouring powder nor solvents, such as alcohol or turpentine, as they could damage the surface of the case.
- The Set Top Box must be disconnected from mains supply (from wall socket or rear panel) before any modification of connection between TV, VCR or antenna. Take care to provide free access to mains plug and socket.
- Use only SAGEM accessories especially to connect the Set Top Box to main voltage socket . Other practice may be dangerous.
- Do not forget to put the batteries inside the remote control unit.

1-2 PACKING LIST

Your Set Top Box is delivered with the following components:

- a remote control unit,
- 2 batteries (R6) for the remote control unit,
- a scart cord for connection to the TV set,
- a power cord,
- this user's manual.

1-3 CONNECTION TO THE MAINS SUPPLY

The Set Top Box must be connected by the power cord to a 220-240 V wall socket. Turn on the mains power on the wall.

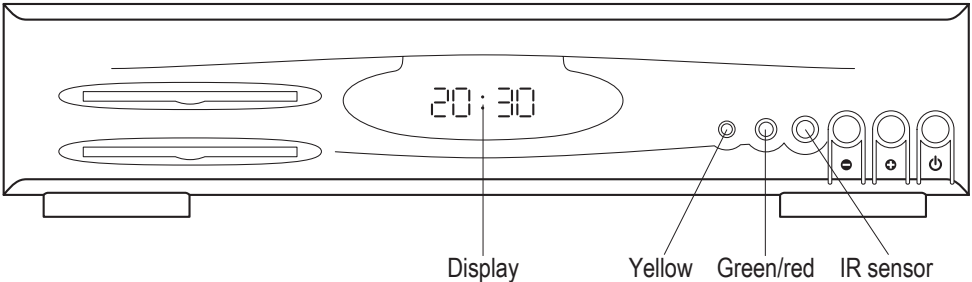


2. General description



GENERAL DESCRIPTION .2

2-1 FRONT PANEL DESCRIPTION



- Stand-by and switch on key.
- Program changing key.
- Red LED Stand-by mode.
- Green LED Reception of commands from remote control.
- 4-digit front panel display (☑).

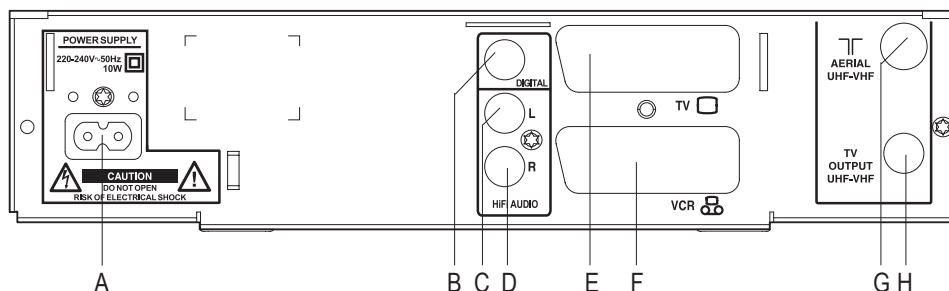
Smart Card readers not available on this product.

(☑): Only available on ITD 611 model



2. GENERAL DESCRIPTION

2-2 REAR PANEL DESCRIPTION



- A - 220-240 V 50 Hz power supply socket (*)
 - B - RCA connector for Digital Audio S/PDIF (**) (☑)
 - C - Socket for connection to HI-FI audio, left channel (**) (☑)
 - D - Socket for connection to HI-FI audio, right channel (**) (☑)
 - E - Scart socket for connection to the TV set (**)
 - F - Scart socket for connection to the VCR (**)
 - G - TV aerial for external or indoor aerial (**)
 - H - UHF-VHF output for TV (**)
- (*) : High voltage
 (**) : Security extremely low voltage
 (☑) : Only available on ITD 611 model

2-3 REMOTE CONTROL UNIT

2-3-1 Installing batteries

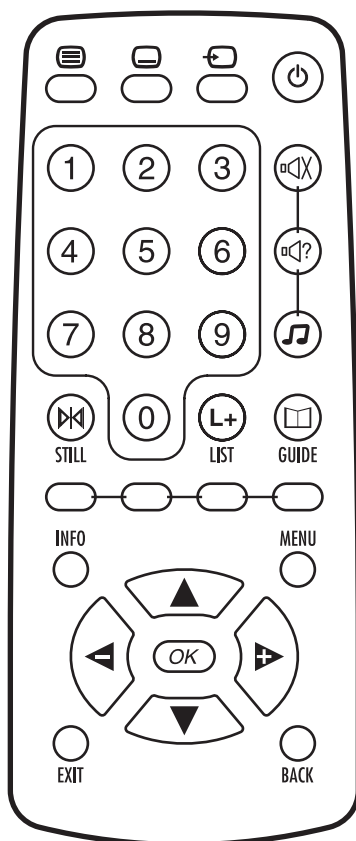
The remote control unit requires two R6 batteries for operation.
 The diagram inside the battery compartment will show you how to insert the batteries.



Warning: Only use the appropriate batteries, according to the manufacturer specifications (see "Outline specifications" section on page 32). The provided batteries are not rechargeable. Bring back the defective or empty batteries to your local waste disposal in accordance with the current regulations. Do not dispose of used batteries in your dustbin.

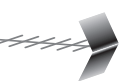
GENERAL DESCRIPTION .2

2-3-2 RCU operation



KEY	FUNCTION
	Standby/Switch on
	Teletext
	Subtitles
	TV/VCR
0-9	Numerical keys
	Audio Mute
	Audio track
	Radio mode
	Still video
	Change favourite list
	Guide
Red	Color function key
Green	Color function key
Yellow	Color function key
Blue	Color function key
INFO	Information
MENU	Menu
EXIT	Exit
BACK	Previous channel and Back in setup menu
	Audio volume - and Left in setup menu
	Audio volume + and Right in setup menu
	Channel - and Down in setup menu
	Channel + and Up in setup menu
	Smart List and Confirm in setup menu

Be sure to point the remote control unit directly towards the Set Top Box.



3. Connections

3. CONNECTIONS

3-1 INTRODUCTION

There are several ways of connecting the Set Top Box to your audio/TV system. Some of the methods enable you to listen to music in stereo sound of CD like quality.

Consult your local supplier for assistance in setting up an audio/video configuration best suited to your unique requirements.

Warning:

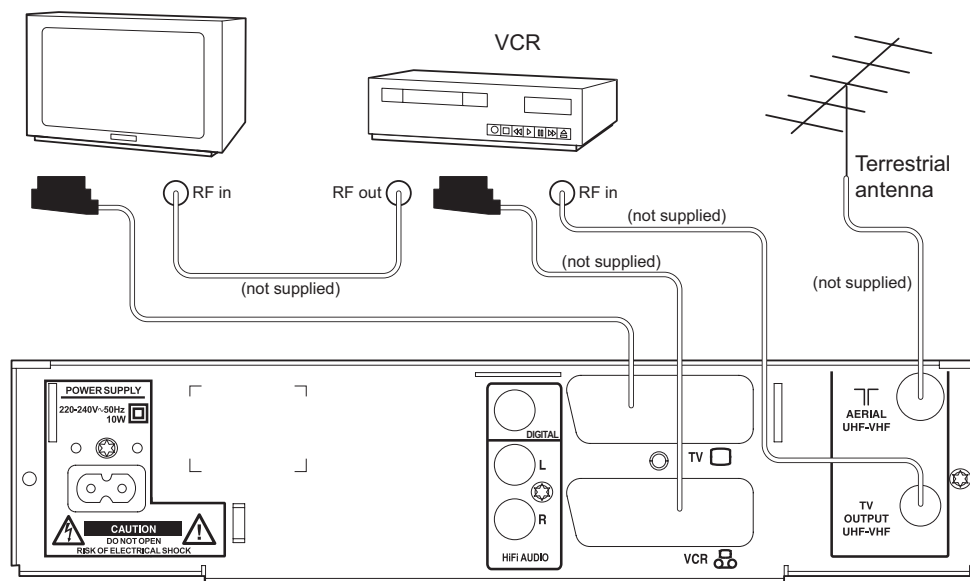
Disconnect the Set Top Box from the mains before connecting or disconnecting any device to it.

3-2 CONNECTION TO TV SET, VCR AND ANTENNA

Only connect your satellite antenna when the Set Top Box is unplugged.

The Set Top Box connects directly to your TV by a scart connector which includes RGB signals to guarantee optimum image quality. Connect the supplied scart cable between the TV scart connector of the Set Top Box and the main scart connector of the TV (the one with 3 points indicating that RGB provision is available).

Then connect the Set Top Box (VCR scart connector) to your VCR (main scart connector on the VCR). The scart cord is not supplied.

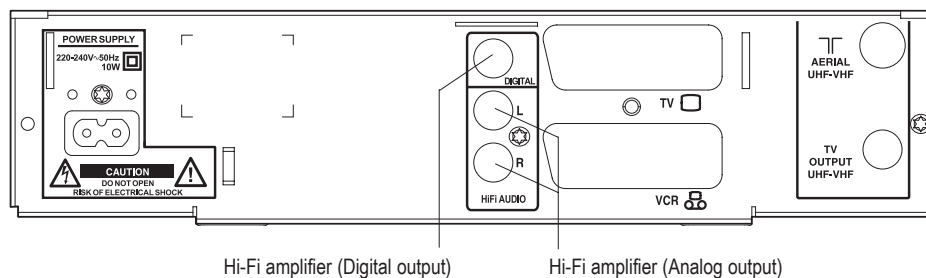


Note:

This model is not equipped with an RF modulator. You can't see digital programs via the RF cord on another TV set.

CONNECTIONS .3

3-3 HI-FI AMPLIFIER



You can connect your Set Top Box to your Hi-Fi amplifier (standard, with equalizer or even better, Prologic) to obtain excellent listening comfort comparable to those of audio programs. Volume adjustment is possible directly from your Set Top Box only on analog output.

4. First time installation





4. FIRST TIME INSTALLATION

4-1 GENERAL INFORMATION

Once you have correctly connected the Set Top Box, you also have to perform a "First time installation". During this procedure, helpful information is displayed at the bottom of the menus.

Please note!

The **OK** button always confirms a selection within these menus, and pressing it will take you to the next step in the installation process. However, and this is important, often more than one value has to be entered in a menu. First, perform all necessary settings on the different lines. Then, confirm them all simultaneously by pressing **OK**.

- Use **cursors**  and  to move upwards and downwards from one line to another.
- Use **cursors**  and  to change settings.



You can also use the numerical keys on the remote control to enter numeric values.

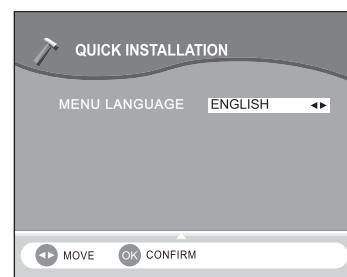
4-2 START THE FIRST TIME INSTALLATION

- Plug in your Set Top Box.
- The "First time installation" menu is shown.
- Press **OK** to continue.



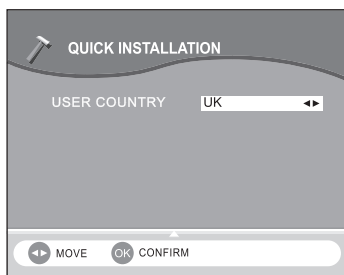
4-3 LANGUAGE

- Select the desired language with cursors  and .



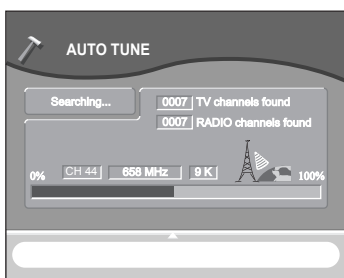
FIRST TIME INSTALLATION .4

4-4 COUNTRY



- Select the desired country with cursors (◀) and (▶). This will also set the current time.

4-5 CHANNEL SEARCH IN PROGRESS



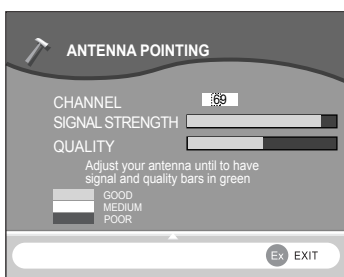
This menu will be shown as the Set Top Box is searching for TV and radio channels.

Please note that the search procedure may take a few minutes. You can cancel the search at any time by pressing EXIT.

When the search procedure has ended, a message will indicate how many TV and radio channels have been found.

- Press (OK) to finish the first time installation and to open the door of Digital TV.

4-6 AERIAL FAILURE



If the channel search has returned no channel, this screen is displayed to help you adjust the aerial antenna.

Enter a channel number (refer to your provider) and move the antenna until the signal and quality bars are green.

When signal and quality are green, press (OK) to launch a new channel search.





5. ADVANCED BOX SETTINGS

5-1 PRELIMINARY

Your Set Top Box is supplied ready to use for a standard configuration.

TV : 4/3 format, RGB

VCR : PAL


Access to the installation screens shown below will enable you to adapt your Set Top Box to your favourite equipment.

Generally, access to set up in main menu is obtained by pressing the **MENU** key.

You can memorise your selections by pressing the **OK** key.

Return to the previous screen by pressing the **BACK** key.

Exit from all the screens by pressing the **EXIT** key.


Use cursor  to move down to the **INSTALLATION** line and press **OK** to confirm.

Access to the installation menus is protected by a secret installation code to avoid any unintentional misadjustment. Your Set Top Box is supplied with default code 1234.

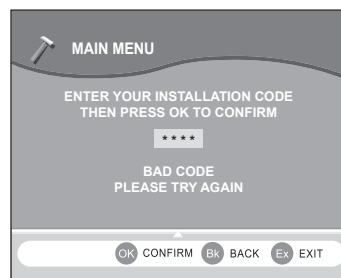
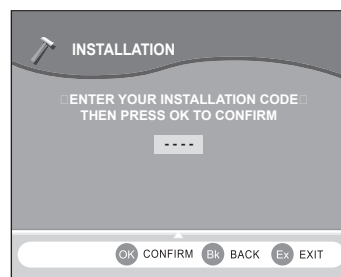
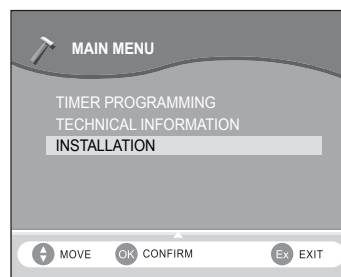
Note: you will not be prompted to enter any code as long as the installation code is 0000.

Enter your code.

As soon as each value is entered, the segment is replaced by a star.

Using cursor  of the remote control unit, you can come back to a value that has already been entered and modify it provided the code has not been confirmed by **OK**. After entering the four digits press **OK** to confirm.

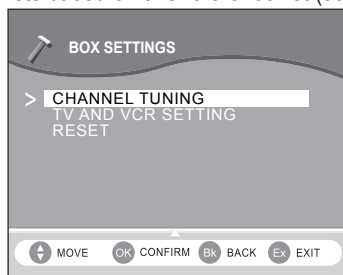
An error message will be displayed if the code you have entered is not correct.



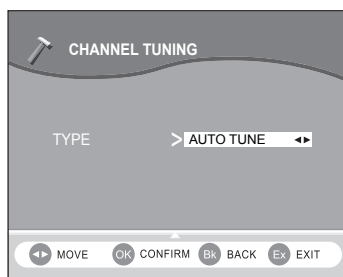
ADVANCED BOX SETTINGS .5

5-2 CHANNEL SEARCH: AUTO TUNE

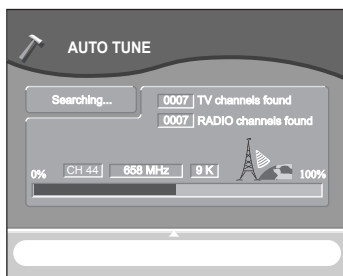
This installation will complete list A with all the channels found during the scanning of all the frequencies. This list is a summary of all the channels and will not be modified. It will be possible to create personal lists based on this reference list (see chapter 6.4).



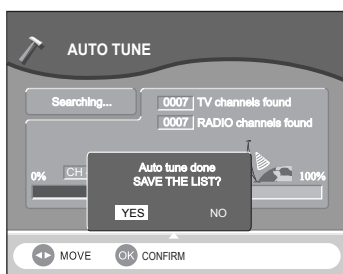
Press **OK** enter channel tuning.



Press **OK** to search.



An indicator at the bottom of the screen will indicate the percentage of the scanned frequency band. The current frequency found is displayed in real time.



A message at the end of the scanning process will ask you to memorize. Press **OK**. You can cancel the scanning process at any time by pressing the **EXIT** key. You can memorize or not.



5. ADVANCED BOX SETTINGS

5-3 CHANNEL SEARCH: MANUAL TUNE

- Enter the channel of your provider.
- Check antenna signal: the signal and quality bars must be green.
- Press **OK**.
- The Set Top Box will catch the channels according to the provider signalization (NIT).

MANUAL TUNE

CHANNEL 69

SIGNAL STRENGTH

QUALITY

Adjust your antenna until to have signal and quality bars in green

GOOD
 MEDIUM
 POOR

EXIT

MANUAL TUNE

YOUR NETWORK'S NAME IS: ☐ WAITING FOR ACQUISITION

OK CONFIRM BACK EXIT

MANUAL TUNE

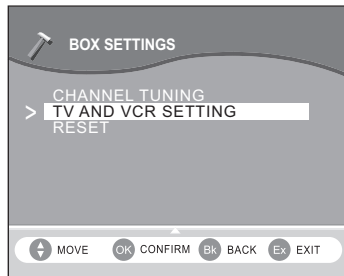
YOUR NETWORK'S NAME IS: CRYSTAL PALACE

OK CONFIRM BACK EXIT



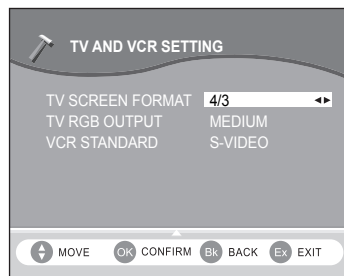
ADVANCED BOX SETTINGS .5

5-4 AUDIO/VIDEO INSTALLATION



Press **OK** for access to this menu.

5-4-1 TV

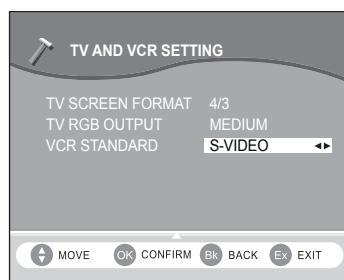


A number of choices are available.

Scroll through the choices using cursors **◀** or **▶**.

- TV format (aspect ratio): 4/3 or 16/9.
- TV RGB output: medium, low or high at your convenience.
- TV RGB output: none if you want to have PAL video output.

5-4-2 VCR



A number of choices are available.

Scroll through the choices using cursor **◀** or **▶**.

- PAL or S-Video standard

After a final check, press **OK** to memorize the settings.
Press **BACK** to continue installation or **EXIT** to terminate.

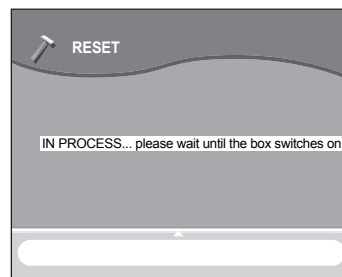
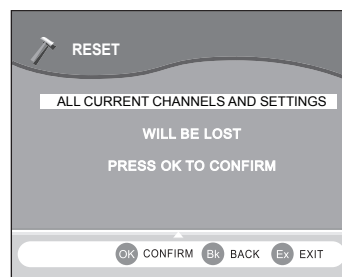


5. ADVANCED BOX SETTINGS

5-5 REINSTALLATION

Use this option **only** if you have to start the complete installation procedure all over again. If you continue from here, **all** your previous settings, access code and favourite channels, etc. will be erased!

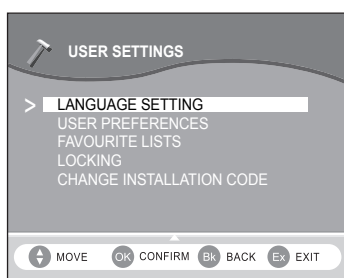
If you do not want to perform a reinstallation, you can leave this menu when the warning is displayed by pressing the BACK or EXIT key.



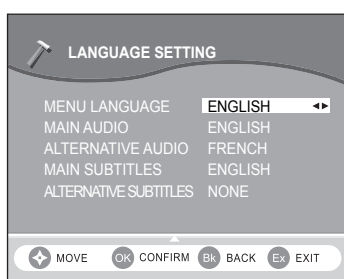
6. User settings

USER SETTINGS .6

6-1 LANGUAGE SETTING

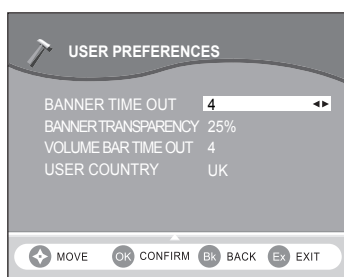


Press **OK** for access to various configurations.
Select LANGUAGE SETTING and press **OK** to confirm.

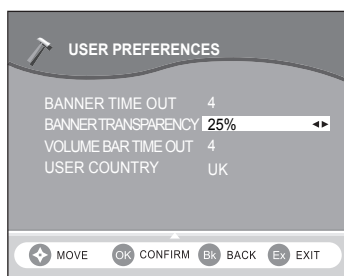


- **MENU LANGUAGE**
You may select the menu display language.
- **MAIN AND ALTERNATIVE AUDIO LANGUAGES**
If more than one audio language is transmitted, you may select the main and the alternative languages.
- **SUBTITLES**
If more than one subtitle is transmitted, you may select the main and the alternative subtitles. To have no subtitle, select NONE for main or alternative subtitle.

6-2 USER PREFERENCES (APPEARANCE PREFERENCES)



- **BANNER TIME OUT**
When you switch channels, an information banner will be shown for a few seconds.
You can select for how long the banner will be shown (0 to 5 seconds).
0 second to have no banner displayed when zapping.

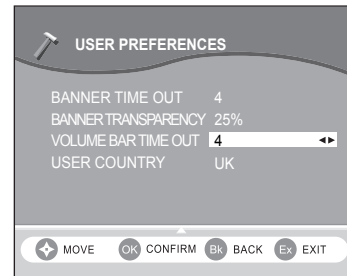


- **BANNER TRANSPARENCY**
When you switch channels, an information banner will be shown for a few seconds.
You can select the transparency aspect of the banner (0% for full blue, 100% for full transparent).





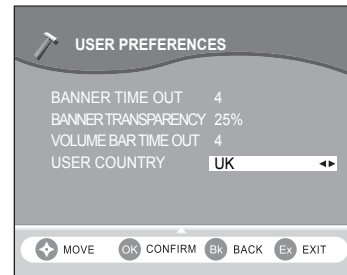
6. USER SETTINGS

- **VOLUME BAR TIME OUT**
Select how long the volume bar will be displayed (0 to 5 seconds).
0 second to have no volume bar displayed.
Press **OK** to confirm.



6-3 TIME SETTING

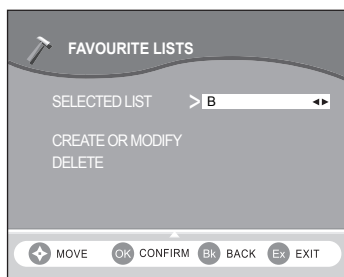
The time is set from the GMT time by using cursor 
or  and selecting the country where you live.
Press **OK** to confirm.



USER SETTINGS .6

6-4 FAVOURITE LISTS INSTALLATION

This function will enable you to make up a FAVOURITE list of the TV or radio type from the reference list A (built from provider (transponder) installation or a scanning) and erase it entirely to reconstruct a new one.

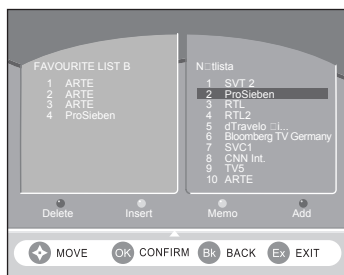


CREATION

Two lists are displayed simultaneously.

- The list on the right side is the reference list (issued from transponder or scanning installation).
- The list on the left side is the list under construction.

Use cursors and of the remote control unit to move from one list to another.



Use cursors and of the remote control unit to move through a list. To improve navigation inside a list, you can enter directly the number of a channel, and the index will go directly on it.

To copy a channel from list A to favourite list (B to H), place the index on the program to be transferred and press the blue key. Restart as many times as necessary.
At the end of creation, memorise using the yellow key.

MODIFICATIONS

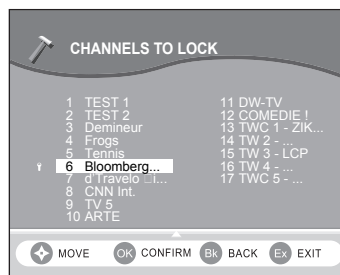
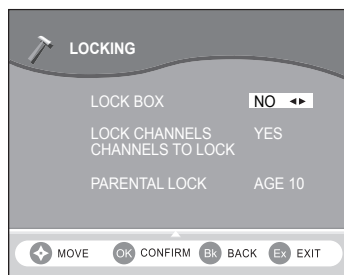
At any moment, you can modify your favourite list (B to H). Memorize at the end using the yellow key.

- To erase, place the index on the channel to be erased and press the red key.
- To insert a new channel from main list A (for example if you have forgotten to put it in number 5). Move the index in the list A (all channels), select it by pressing the green key (the index moves to the favourite list). Move the index in your favourite list up to the channel just after the number where you want to insert (example 6), press the green key.
- To move a channel from one place to another in a favourite list, delete it and then insert it from the main list to the place you want.






6. USER SETTINGS

6-5 LOCKING



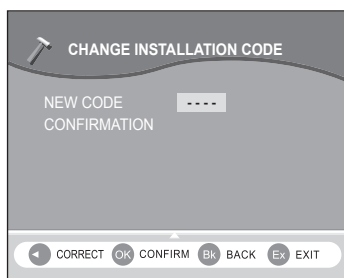
4 types of locking are provided:

- Select Lock Box (yes/no) for general locking. This represents the highest Set Top Box locking level.
You will be prompted to enter your code each time you switch on your Set Top Box.
Note: this locking will be activated after one standby/on cycle.
- Select Lock Channels (yes/no) for locking activation. This locks or unlocks all the locked channels in one operation.
This offers the advantage of being able to lock several channels and unlock them temporarily.
- Select Channels To Lock for individual channel locking: you can choose to lock only selected channels. To do so, navigate through the channels using cursors  and  and press  each time you want to lock a channel.



USER SETTINGS .6


6-6 CHANGE PROTECTION CODE



Enter your new code.

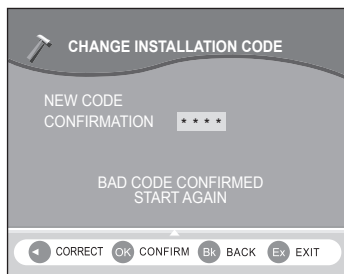
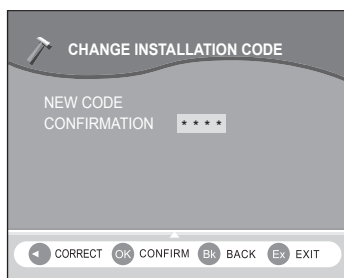
The first segment blinks until its value is entered, then the second segment blinks, etc.

As soon as the value has been entered, the segment is replaced with a star.

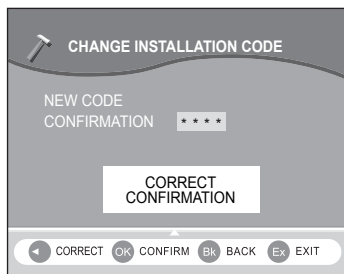
Use cursor  on the remote control unit to come back to a value that has been entered and modify it until the whole is confirmed by **OK**.

In this case, the value becomes a blinking segment again, indicating that entry is possible.

Enter the same new code to confirm it.



If you have not entered the right code, you will see an error message.



Indication of correct acknowledgement.





7. USING YOUR SET TOP BOX

7-1 CHANGING CHANNELS

The Set Top Box provides several ways for channel switching:

- **Using  and  on the front panel or  and  on the remote control unit:**

The Set Top Box switches to the next service up () or the next service down () from the current channel.

- **Entering the numerical code for the channel on the remote control keypad:**

Type in a single digit (1), which is displayed in the third digit position on the front panel display on the screen banner, e.g. "1—".

If you do not type in another digit within 2 seconds, the digit is displayed in the first digit position on the front panel display and on the screen banner, the second and the third digits are blanked out and the video and audio playing process is activated on the new Video service, e.g. "1".

If you type in another digit (2), this is displayed in the second digit position, e.g. "12—".

If you do not type in another digit within 2 seconds, the two digits are displayed in the first and second digit positions on the front panel display and on the screen banner, the third digit is blanked out and the video and audio playing process is activated on the new Video service, e.g. "12".

If you type in another digit (3), this last digit is displayed in the first digit position on the front panel display and on the screen banner and the video and audio playing process is activated on the new Video service, e.g. "123".

If the numerical code entered does not correspond to a video service in the list, the Set Top Box selects the first lower video service in the list.

- **Previous channel:**

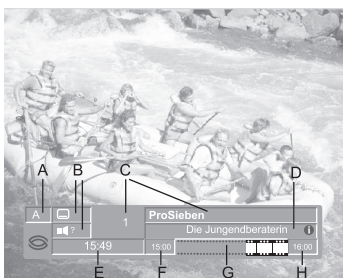
The BACK key enables you to zap between the current channel and the last channel viewed. You can use this key e.g. when waiting for a movie to begin.





USING YOUR SET TOP BOX .7

7-2 PROGRAM INFORMATION



Every time you change channels, you will receive program information for a few seconds (in the User preferences menu, you can select how long this information will be shown).

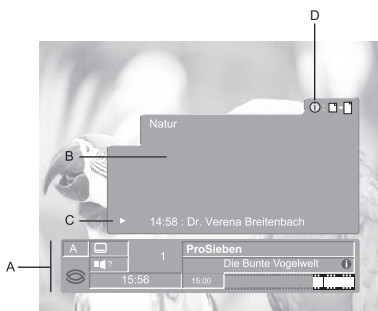
The information may include:

- (A) Channel list
- (B) Number of audio tracks and subtitles available
- (C) Channel number and name
- (D) Name of the current program
- (E) Current time
- (F) The start and end time of the current program
- (G) A bar, indicating the elapsed time of the current program
- (H) The start and end time of the next program.

Program information will only be available if it is included in the transmission.

You can change directly the transparency of the zapping banner: press **INFO** for 2 seconds, adjust with cursors **◀** and **▶** then press **OK** to save.

7-3 EXTENDED PROGRAM INFORMATION



The Set Top Box can display information about programs currently being broadcast as well as those that will be broadcast next.

By pressing **INFO** while watching TV, you will get the "Program information" banner.

- (A) Program information (see chapter 7-2).
- (B) Short summary.
- (C) Next program.





7. USING YOUR SET TOP BOX

If the ⓘ icon is displayed (see D), an extended summary is available.

Press **INFO** to display it.

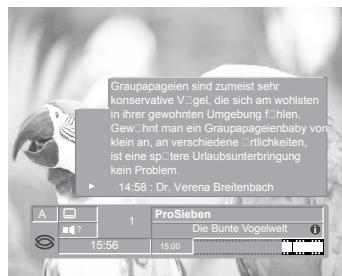
Use cursors ⬅ and ➡ to switch between the current and the next program information.

When there is a lot of information text, use cursors ▲ and ▼ to continue reading on the next info page.

You can see another channel information by pressing cursors ▲ and ▼.

Pressing **OK**, you will watch the video.

- Press **INFO** or **EXIT** to return to TV mode.



7-4 TV CHANNELS LIST

- When viewing TV programs, press **OK** to display the current channels list.
- Move with cursors ⬅, ➡, ▲ and ▼, and select channel with **OK**. You can change favourite list with **L+** key.
- Without displaying TV list, you can directly change favourite list by pressing **L+** key.



7-5 AUDIO LANGUAGE AND SUBTITLE LANGUAGE SELECTION

By pressing ⏮ or ⏭, you open the menu that lets you enter **temporary** settings. Settings made in this "options menu" are only valid for the program you are currently watching. If you leave the program and return to it again, the temporary settings will be lost.



7-5-1 Audio language ⓘ

When available, you can select among the different languages being broadcast.

Please note: when you select a digital audio, there will be no sound output from the analogue audio connections (☑).

SP DIF output is for future innovative Home Cinema Use.

(☑): Only available on ITD 611 model







USING YOUR SET TOP BOX .7

7-5-2 Subtitle language

When available, you can select among different subtitle languages.

- Each time you press one of these two keys, you change language.
- A time out automatically closes this menu.
- The number on the left of each language indicates how many languages are available on this current channel.

7-6 VOLUME ADJUSTMENT


To increase or reduce the volume, use cursor  or .

To turn off the sound quickly, press the  mute key.

Press the  mute key again to restore the sound.

The audio volume cannot be adjusted in the VCR and TV modes.

7-7 TV MODE

With the  button, you can toggle between external connected equipment, such as e.g. a digital terrestrial TV or a video recorder (the video must be switched on).

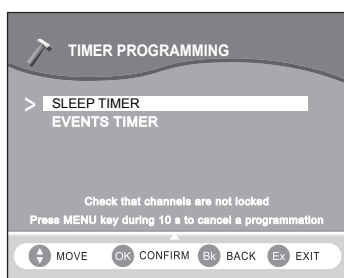
(This is only valid when the units are connected via SCART cables, and not by RF connection).

7-8 TELETEXT

Pressing  key will open a teletext page (if teletext is transmitted).

Select teletext pages with the numerical keys on the remote control.

7-9 TIMER PROGRAMMING



The Timer programming function enables the Set Top Box to:

- switch off at a selected hour (sleep timer),
- automatically switch to your preselected channels at preselected times (events timer).



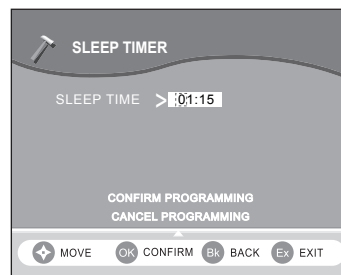


7. USING YOUR SET TOP BOX

7-9-1 Sleep timer

Enter the selected sleep hour.

Confirm with **OK**.




7-9-2 Events timer

This function is for future inovative use.

You can make the Set Top Box start and stop at a predefined time.

The timer function is very useful when you want to record a program and you are unable to start/stop the recording event yourself, or when you just want to be reminded of the start of a program you do not want to miss.

Note! The timer function only works when the receiver is in standby.

- Press **OK** to set an event.
- First, select Channel list with numerical keys.
- Set the date using the numerical keys on your remote control (yy/mm/dd).
- If you enter a wrong digit, you can erase it with cursor .
- Set the start and stop time using the numerical keys on your remote control.

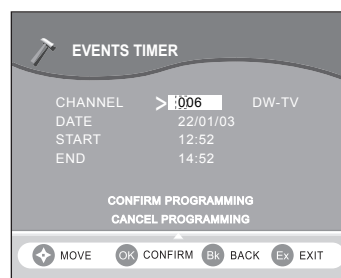
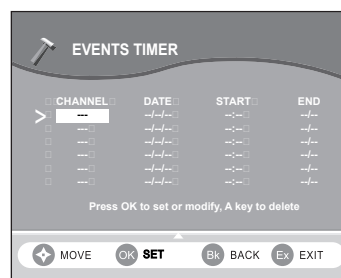
The different start times must not overlap each other. If you try to enter a start or stop time within an already occupied period of time, you will get a warning message about it.

- Select Confirm and press **OK** to save.
- Select Cancel and press **OK** to abort.

Up to 6 different events can be predefined. The events will be sorted in start time order.

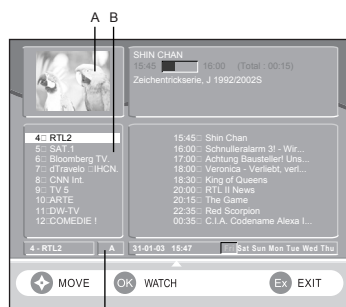
At each stop time, the box will return to standby.

During the predefined event in process, you can stop it by pressing the **MENU** key.



USING YOUR SET TOP BOX .7

7-10 ENHANCED PROGRAM GUIDE



To display more detailed information about a selected program, press the **INFO** key. To remove this information, press **EXIT** key.

(A) Resized video is displayed. This video is the current one before entering the EPG.

(B) Channels list of the current list is displayed. Select the chosen channel with **▲** and **▼** and see the associated resized video by pressing **OK**.

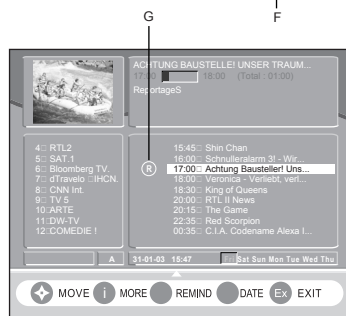
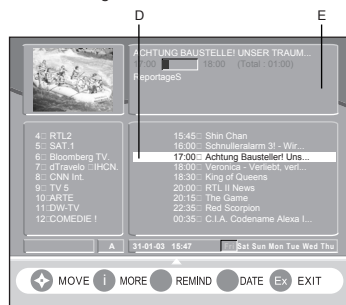
(C) Display the name of the favourite list used.

(D) By pressing **▶**, the current event is high-lighted. You can see all events of the day by pressing **▲** and **▼**.

(E) The following information about the selected program is displayed at the top of the screen:

- the time the program begins and ends,
- a bar which fills in as the program progresses,
- the name of the program,
- information about the program's contents (press **INFO** key to have extended content shown by...).

(F) Press red key to be able to change the date. Then press cursors **◀** and **▶** to change the date (7 days available according to the data sent by the provider).
(Only one day present and following events on ITD 601.)



(G) Reminder (this function is for future innovative use) (**☑**): after selecting an event, press **OK** key. A **®** icon shows that you have put a reminder on this event.

Error messages will indicate if the event is:

- in process,
- or over.

When watching programs, a message will indicate you the beginning of the event.

(**☑**): Only available on ITD 611 model



7. USING YOUR SET TOP BOX

7-11 RADIO MODE



Press the key on the remote control unit or on the front panel of the Set Top Box.

You can move through the list displayed using and .

You can adjust the volume.

7-12 SET TOP BOX ENHANCEMENT

The Set Top Box goes in this state when a new version of software is available on the network.

- "init" is displayed on the front panel display.
- The Welcome screen is still displayed.

Then the following screen is displayed.

You can delay the downloading process by pressing the **EXIT** key. This process will be displayed again the next time you switch on your Set Top Box.

When pressing the key, the downloading will be performed:

- then the screen becomes black,
- the 5 steps of the download process can be followed on the front panel display: Flash on led.

During this mode, no action from the user is authorized.

On completion, the download process "init" is displayed on the front panel display and the screen opposite is displayed. Then press the , the Set Top Box switches in wake up status.

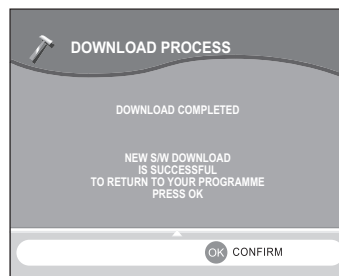
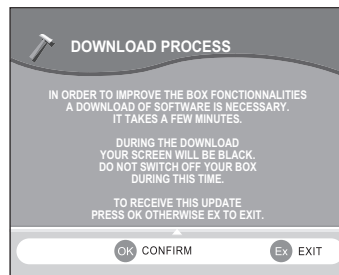
Note: if the download process is not correctly performed, the screen stays black and error messages are displayed on the front panel display (e.g. Flash on led).

Then put the Set Top Box in standby mode and switch it back on to perform downloading again.

If this operation does not succeed, unplug the main cord and the antenna cord. Then plug them again to perform downloading again. If the problem is still present, call your supplier's hot line service.

ITD 601 is not provided with a display and the front panel LED is used to indicate failure causes if, at the end of the procedure, the green LED flashes quickly.

ITD 611 is provided with a display and it indicates failure causes.






USING YOUR SET TOP BOX .7

Error Code	Origin of Error	User Action
ER02, ER09, ER10	Reception error	Acknowledge the message by OK If necessary, repeat your request
ER03, ER04, ER05	Flow validity errors	Acknowledge the message by OK If necessary, repeat your request
ER07, ER08	Local errors	Acknowledge the message by OK Repeat your request
ER00, ER01, ER06, ER11, ER12	Various errors	Acknowledge the message by OK If necessary, repeat your request
Pb01, Pb02, Pb03, Pb04	Defective STB	See your dealer for replacement

7-13 TROUBLESHOOTING

- All front panel indicators are off ⇒ Check power supply
- The remote control has no effect on the terminal ⇒ Point the remote control towards the terminal
⇒ Check the state and polarity of the batteries
- The red front panel LED remains on ⇒ Switch terminal from stand-by to on 
- A black screen or an error message is displayed ⇒ Perform a new auto tune
- Bad reception with a portable antenna ⇒ Move the antenna away from the Set-Top-Box





7. USING YOUR SET TOP BOX

7-14 OUTLINE SPECIFICATIONS

Transmission standards

DVB-T, MPEG 2, OFDM

Tuner (RF Input)

Input Connector: IEC 169-2 Female

RFinput frequency range:

UHF 470-862 MHz (8 MHz BW)

VHF 174-222 MHz (7 MHz BW)

RF input level: -90 to -20 dBm

RF impedance: 75 Ohm

COFDM bandwidth: 7 MHz and 8 MHz

Tuning step: 166.66 KHz

Output Connector: IEC 169-2 Male

Loophrough F. Range: 47-862 MHz

Demodulator

COFDM mode: 2 k/8 k supported

Support SFN

Modulation: QPSK, 16-QAM, 64-QAM

Code rate: 1/2 to 7/8

Mode: Non hierarchical

Guard interval: 1/4, 1/8, 1/16, 1/32

De-interleaver: 12x17 Forney

convolutional

Outer decoder: Reed Solomon

(204, 188, 8)

Demultiplexing/Descrambling

CD ISO/IEC 13818-1 compliant

Video decoder

MPEG-2 (ISO/IEC 13818-2)

Profile level: MP@ ML

Input rates: 1.5 to 15 Mbit/s

Aspect Ratio: 4:3 and 16:9

Video resolution: 720x576, 704x576,

544x576, 480x576, 352x576, 352x288

Conversion: Pan and scan, Letter box

Resizing: Down/up (1/4, 1/16)

Audio decoder

CD ISO/IEC 13818-3 compliant

MPEG layer I et II (Musicam Audio)

Mode: Mono, Stereo, Joint stereo

Sampling frequency: 32/44.1/48 KHz

Microprocessor and memories

Processor: IBM power PC CPU

252 Mhz, 350 MIPS

RAM memory (PPC+video) 16 Mbytes

Flash memory 4 Mbytes

A/V data input/output

TV scart

RGB, CVBS, Audio stereo

VCR scart

CVBS, Y/C out, Audio stereo

RCA Audio L/R (☑)

Volume and mute control

Dolby Digital output (☑)

S/PDIF 1xRCA

Front panel

2 leds - 3 buttons

4 digits green color display (☑)

IR sensor: 38 KHz

Rear panel

1 x IEC female (signal input)

1 x IEC male (RF Loophrough)

2 x SCART (TV, VCR)

1 x S/P-DIF RCA (Digital audio) (☑)

2 x RCA (analog HiFi) (☑)

Power supply

AC 220-240 V ~50 Hz

Type : SMPS

Power consumption less than 10 W

(stand-by less than 5 W)

Protection: internal fuse

Physical specifications

STB

Color: cool grey

Size (wxdxh): 254x205x60 mm

Weight: 1.3 kg

Operating temp. +5°C to +40°C

Total packing (carton box)

Total weight: ~2.1 kg

Size (wxdxh): 385x288x80 mm

Storage temp.: -25°C to +65°C

Accessories

Remote Control

NEC Code

Operating range up to 7 m

Batteries 2 x 1.5 V (type AA)

Power cord

Scart cord

User manual

(☑): Only available on ITD 611 model





USING YOUR SET TOP BOX .7

7-15 GUARANTEE (UK TERMS AND CONDITIONS)

ATTENTION

**In order to apply the guarantee, you should contact your dealer.
Proof of purchase will be required. Should any malfunctioning arise,
the dealer will advise you what to do.**

If you bought your equipment from SAGEM directly, the following shall apply:

- 1) SAGEM undertakes to remedy by repair, free of charge for labour and replacement parts, any defects in the equipment during a period of twelve (12) months from the date of original delivery of the equipment, where those defects are a result of faulty workmanship.
During this twelve-month guarantee period, the defective equipment will be repaired free of charge; the customer must however return the defective equipment at his/her own expense, to the address given by SAGEM After Sales Department, the phone number of which can be found on the delivery slip. Unless the customer has concluded with SAGEM a maintenance contract for the equipment which specifically provides for repairs to be carried out at the Customer's place, the repairs will not be carried out on the equipment at the Customer's place.
The following sentence applies to purchases of equipment for the customer's trade, business or profession. Except as otherwise expressly provided in this Document and to the extent permitted by law, SAGEM makes no representations or warranties, express or implied, statutory or otherwise, and to such extent, all terms and conditions implied by law are hereby excluded. This guarantee does not affect the Customer's statutory rights.

- 2) **Exclusions from Guarantee**

SAGEM shall have no liability under the guarantee in respect of:

- damage, defects breakdown or malfunction due to:
 - failure to properly follow the installation process and instructions for use, or
 - an external cause to the equipment (including but not limited to, lightning, fire, shock or water damage of any nature), or
 - modifications made without the written approval of SAGEM SA, or
 - a failure or neglect to maintain the equipment or inappropriate maintenance, or
 - unsuitable operating conditions, particularly of temperature and humidity, or
 - repair or maintenance of the equipment by persons not authorised by SAGEM,
- wear and tear from normal daily use of the equipment and its accessories,
- damage due to insufficient or bad packaging of equipment when returned to SAGEM,
- supply of new versions of software,
- work on any equipment or software modified or added without the prior written consent of SAGEM,
- malfunctions not resulting from the Equipment or from software installed in user workstations for the purpose of use of the equipment,

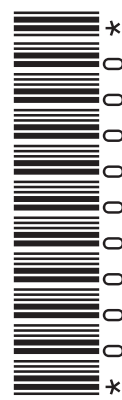




7. USING YOUR SET TOP BOX

- communication problems related to an unsuitable environment, including:
 - problems related to access and/or connection to the Internet such as interruptions by access networks or malfunction of the line used by the subscriber or his correspondent,
 - transmission faults (for example poor geographical coverage by radio transmitters, interference or poor line quality),
 - the local network fault (wiring, servers, workstations) or the failure of the transmission network,
- the normal servicing (as defined in the user guide supplied with the equipment) as well as malfunctioning due to servicing not being carried out, servicing costs are in any event always borne by the customer.





All characteristics contained in this manual are meant for information only and are subject to change without notice.