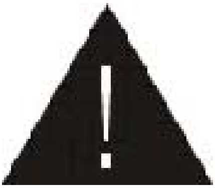
U4113

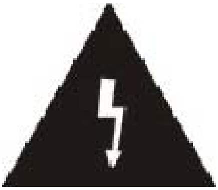
univers
POWER
LOCK
00 00
CH+
CH-
DVB
Digital Satellite Receiver

univers
by FTE

SAFETY PRECAUTION



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to “dangerous voltage” and to prevent from a risk of electric shock.

Warning:
To reduce the risk of electric shock, don’t open the cabinet. Refer servicing to qualified personnel only.

The exclamation point within an equilateral triangle is intended to alert the user to important operating and maintenance (servicing).

Please read the manual carefully before installing the receiver.
Caution: Never open the device by yourself. Dangerously high voltages are present inside the unit. Refer servicing to qualified staff only.
When installing the receiver, always unplug the receiver from the mains voltage.
Unplug the receiver from the mains in case of long periods without operating the receiver (for example, during holidays!).
To prevent shock hazard, do not touch the power plug with wet hands.
Always unplug the receiver before cleaning it or working on the connections.
Do not install the receiver close to strong heat sources, and ensure a good aeration if you plan to install the receiver in a small cabinet.
Before you start operating the receiver, make sure that the satellite antenna is properly built up, optimally connected and aligned.
The correct place to install the receiver is, of course, near your TV set and any other A/V signal sources (DVD, VCR, CD, game console, etc.).
Choose a stable support, in which you can easily lay the necessary connecting cables without stumbling-danger.
The receiver should be installed near an easily accessible outlet.
Do not install the receiver in a place where it can be reached by liquid spills.
Do not put any heavy objects as, for example, a TV-device over the receiver; the receiver could be damaged.

DO NOT INSTALL THE RECEIVER:

- On an unstable surface
- Subject to direct sunlight
- In high humidity environment
- Outside the receiver’s temperature range (+5°...+40°C)

If the receiver is subject to severe temperature changes, it can suffer from water condensation inside. Switch off the receiver in these cases for at least 2 hours before resuming operation.

QUICK INSTALLATION GUIDE

FOLLOW NEXT STEPS FOR THE CORRECT INSTALLATION OF THIS RECEIVER.

STEP 1: CONNECTIONS

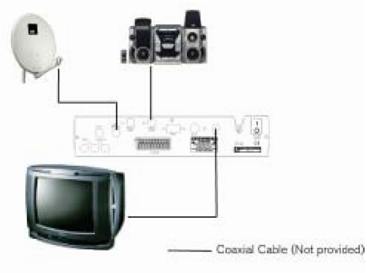
The coaxial cable, with satellite signal, must be connected to the "IF IN" connector. The "TV SCART" connector must be connector to the TV set.

The receiver also includes an UHF modulator, allowing connecting a TV set or VCR. However the picture quality will be a little poorer. The modulator has an antenna input and the output range is from channel 21 to 69. This will allow you to mix the existing antenna signals with the output channel generated by the receiver.

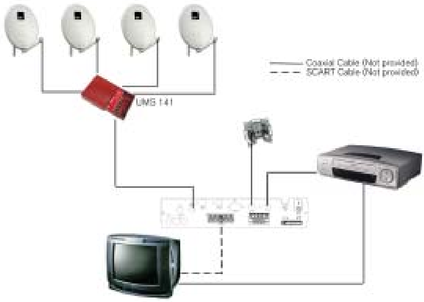
The modulator output is factory preset to channel 38. You can change the output channel in the TV system menu that you can find in System Setup menu.

You will also have to tune your TV set accordingly, in order to receive the picture from the receiver.

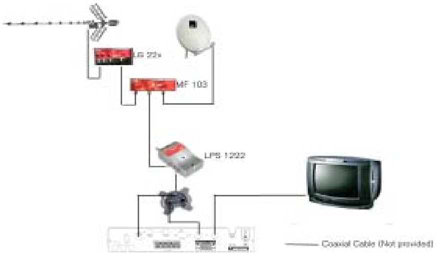
Depending on the type of installation, the receiver should be connected and configured following next examples.


Coaxial Cable (Not provided)

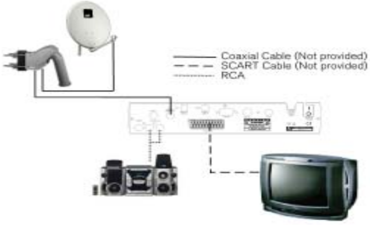
Example 1 – Basic System


Coaxial Cable (Not provided)
SCART Cable (Not provided)
UMS 141

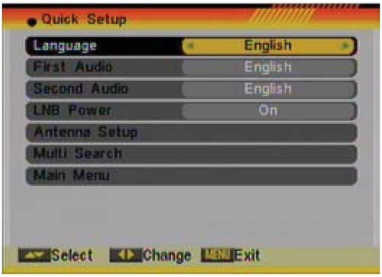
Example 2 – DISEqC switches


LG 22x
MF 103
LPS 1202
Coaxial Cable (Not provided)

Example 3 – Combined with terrestrial

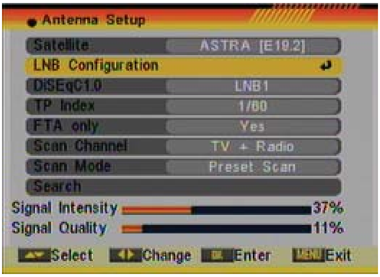

Coaxial Cable (Not provided)
SCART Cable (Not provided)
RCA

Example 4 – Motorized system



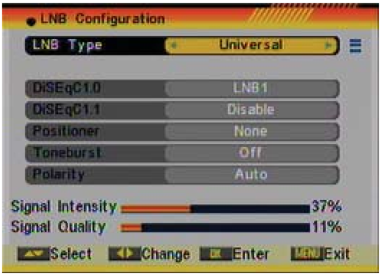
Language	English
First Audio	English
Second Audio	English
LNB Power	On
Antenna Setup	
Multi Search	
Main Menu	

IMAGE 1



Satellite	ASTRA [E19.2]
LNB Configuration	
DiSEqC1.0	LNB1
TP Index	1/60
FTA only	Yes
Scan Channel	TV + Radio
Scan Mode	Preset Scan
Search	
Signal Intensity	37%
Signal Quality	11%

IMAGE 2



LNB Type	Universal
DiSEqC1.0	LNB1
DiSEqC1.1	Disable
Positioner	None
Toneburst	Off
Polarity	Auto
Signal Intensity	37%
Signal Quality	11%

IMAGE 3

STEP 2: BASIC CONFIGURATION OF THE RECEIVER

The receiver includes an installation assistant (Quick Setup) that will help you to setup the different parameters.
When the receiver is turned on at first time (using the button at the rear panel of the receiver), the next menu is shown on the TV (Image 1):
The receiver is programmed with all the channels of Astra (at position 1 of the DISEqC), Hotbird (at position 2 of the DISEqC), Hispasat (at position 3 of the DISEqC) and Turksat (at position 4 of the DISEqC). If your installation is different to this case, please follow installation steps to search the channels.
In order to move through the different options of this menu, please use the keys [▲▼] of your remote control. If a "Short circuit on the LNB" message is shown on the TV, please check the connections before continuing the installation.

Language: press [◀▶] to select languages. The selection of languages include: English, German, French, Italian, Portuguese, Spanish, Turkish, Polish, Hungary and Arabic.

First Audio: Some channels offer more than one audio language. This function allows you to set the preferred audio language for those channels using [◀▶]. If a channel offers the same audio language as the "First Audio" you set the system will play this audio language as default. If the channel does not offer this audio language then the system will compare the offered languages with the second audio language. The selections of audio languages include: English, French, German, Russian, Arabic, Portuguese, Turkish, Spanish, Polish and Italian.

Second Audio: If the channel has no audio language that corresponds with "First Audio" but with "Second Audio" the system will play the second audio language as default. If no audio language corresponds with the "Second Audio" then the default language of the current channel will be played instead. The selections of audio languages include: English, French, German, Russian, Arabic, Portuguese, Turkish, Spanish, Polish and Italian.

LNB Power: Here you can set the power output to the LNB. If your receiver is connected to the LNB directly then you need to set the LNB Power to "On". If your receiver is connected to a multi switch (SMATV signal distribution system) then it may be that you don't need to provide the power to the LNB. But since this is depending on the kind of installed distribution system we recommend you to contact your installer or to refer to the user manual of this system to get the correct information.

Antenna Setup. You can edit the following items (Image 2):

1. Satellite: Press [◄ ►] to switch Satellites or press [OK] to enter satellite list to select directly.

2. LNB Configuration: Selecting this option and pressing [OK], the LNB Configuration menu will be displayed. In this menu, next options can be modified (Image 3):

- LNB Type: Press [◄ ►] to switch among “Standard”, “User” and “Universal” mode. If you select “Standard” or “User”, the frequency of the LNB can be changed. Pressing [OK] the frequencies will appear to be edited. Select the frequency you want to edit and change the value with [◄ ►]
- 22K: Use [◄ ►] to switch “ON” and “Off”. The 22 kHz signal is used in KU Universal LNBs to change between low band and high band. After choosing LNB type “Universal” you cannot modify 22K.
- DiSEqC1.0: Use [◄ ►] to switch the options of DiSEqC switches.
- DiSEqC1.1: Use [◄ ►] to switch the options of DiSEqC1.1 switches.
- Positioner: Press [◄ ►] to select between “None / DiSEqC1.2 / USALS”.
- Toneburst: Press [◄ ►] to switch this function “On” or “Off”.
- Polarity: Press [◄ ►] to switch between “Auto / H / V”.

Once the LNB is configured, press [Exit] to save the changes and go to the previous window to continue configuring the antenna.

3. DiSEqC1.0: Use [◄ ►] to switch the options of DiSEqC switches.

4. On “TP Index” item use [◄ ►] to select the desired transponder.

5. In the “FTA Only” item, press [◄ ► to select to scan only free channels or even scrambled channels. If you select “Yes” it will scan free channels only.

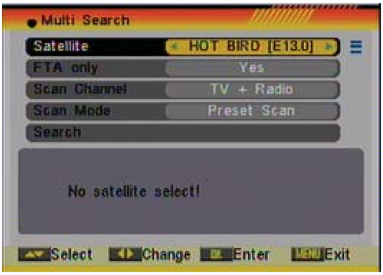
6. In “Scan Channel” item, press [◄ ►] to select to scan TV + Radio Channels, or just TV channels or just Radio channels.

7. In “Scan Mode” item you can select “Auto Scan” to blind scan or “Preset Scan” to scan all preset transponders.

8. Move the highlight to “Search” and press [OK] button to start scanning. Bars are showing the progress of the channel scanning in the lower part of the window and the found channels are listed.

You can stop the scan with [Exit] and save the so far found channels.

9. Press [Exit] to exit this menu. A window to confirm the changes will appear.



Satellite ◄ HOT BIRD [E13.0] ►
FTA only Yes
Scan Channel TV + Radio
Scan Mode Preset Scan
Search

No satellite select!

IMAGE 4

Multi search. You can edit the following items (Image 4):

1. On "Satellite" item press [OK] to open the satellite list. Then press [▲▼] to move the highlight and press [OK] to mark/unmark and [EXIT] to finish the selection. You can select several satellites in this menu. At the bottom of the screen you can see the selected satellites. The system will use DiSEqC1.0/1.1, DiSEqC1.2 and USALS functions to search the marked satellites and scan channels.
2. On "FTA Only" item, press [◄►] to select scanning of all channels or just scanning of free channels. If you select "Yes" it will scan free channels only.
3. On "Scan Channel" item, press [◄►] to select the scanning range from TV + Radio Channels, only TV channels or only Radio channels.
4. On "Scan Mode" item, you can select "Auto Scan" to make a blind scan or "Preset Scan" to scan all preset transponders of the selected satellites.
5. Select "Search" and press [OK] to start scanning. In the lower part of the window the progress of scanning and the found channels are displayed.
6. Press [Exit] to cancel or finish the scanning and saving the found channels.

Main Menu: Selecting this option, the main menu will appear on the TV.

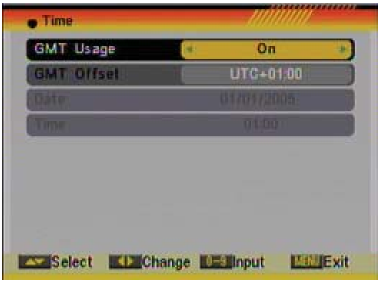

Time
GMT Usage: On
GMT Offset: UTC+01:00
Date: 01/01/2005
Time: 01:00

IMAGE 5

STEP 3: TIME CONFIGURATION

It is recommended to setup the clock before starting to enjoy the receiver, because correct time maybe is required by some applications. Please complete following options:

Press the [Menu] key of the remote control for appearing the main menu. Select the "System Setup" option and confirm pressing [OK].

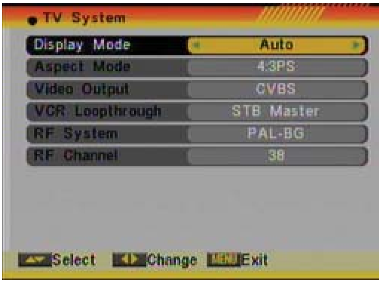
Once in the "System Setup" option, please select "Time and Timer setting" option and press [OK]. Select "Time" option and press [OK]. Image 5 is watched on the TV. For setting up the time, please complete:

1. GMT Usage: this option will allow you to select if the date and time will be introduced manually (GMT Usage: Off) or if you wish to introduce the offset respect GMT manually (GMT Usage: On).
2. GMT Offset: If GMT Usage is On, the offset respect GMT has to be configured depending on your region or country. Use the [◄►] keys to choose the offset. Remember that the offset values are between -12:00 and +12:00
3. Date / Time: In order to introduce manually the time and date. Before these values can be modified, the automatic control of GMT has to be turned off.

NOTE: If the current channel provides the correct time

information, you will see the current time after you entered “Time” menu. If the channel doesn’t provide time information, you have to input the date and time information manually. The most channels support the time signal.
4. Press [Exit] to exit the menu.

STEP 4: MODULATOR OUTPUT CHANNEL CONFIGURATION


TV System

Display Mode: Auto
Aspect Mode: 4:3PS
Video Output: CVBS
VCR Loopthrough: STB Master
RF System: PAL-BG
RF Channel: 38

IMAGE 6

It is recommended to setup the modulator output channel before starting to enjoy the receiver, especially if you are using this output for getting the picture on the TV and mixing it with an existing antenna signals.
The receiver includes an UHF modulator, allowing connecting a TV set or VCR without SCART connector. The modulator has an antenna input and the output range is from channel 21 to 69. This will allow you to mix the existing antenna signals with the output channel generated by the receiver. The modulator output is factory preset to channel 38. To change this value, please complete following options:

1. Press [Menu] button and access “System Setup” menu.
2. Select “TV System” menu and press [OK] (Image 6).
3. Select “RF Channel” option and change its value using [◄ ►].
4. Press [Exit] button to save the changes and exit this menu.

You will also have to tune your TV set accordingly, in order to receive the picture from the receiver.

- TV Channel List: This option shows the list of TV stored channels.
- Radio Channel List: This option shows the list of Radio stored channels.
- Channel Setup: This option allows setting the receiver to start in a predefined channel.
- Favourite Channel List Name: It allows changing the name of the favourite groups.
- Delete All: This option deletes all TV and Radio stored channels.
- Restore channel list and settings: This option loads the user TV and Radio channel list, saved previously.
- Save channel list and settings: This option makes a backup of the channel list and it will allow restoring the channel list even thought after a factory default.

Installation

- Antenna Setup: This option allows setup the antenna parameters.
- Single Search: Once the antenna is configured, this option allows search for the channels of one satellite.
- Multi Search: Once the antenna is configured, this option allows search for the channels of various satellites.
- TP Search: Once the antenna is configured, this option allows search for the channels of one TP.
- Satellite List: This option shows all the stored satellites. This list can be modified.
- TP List: This option shows all the stored TP. This list can be modified.
- Satellite Guide: After introducing some data, this application allows to know which orientation and elevation should be the antenna.

System Setup

- Language: This option allows choosing the language of the menus.
- TV System: This option allows choosing the video Standard and other parameters of the screen.
- Time & Timer Setting: Timer setting menu.
- OSD Setting: This option allows configuring the subtitles of the channel information.
- Parental Lock: In this option, user can lock the access to the menu and change the password of the receiver.
- LNB Power: Turns on or off the LNB power.
- RCU position Switch: To chose the RCU position of the remote control.

- Information: Shows all the technical information for the selected channel.
- Quick Setup: The installation assistant will be loaded.
- Game: Some games like Tetris, Snake and Othello.
- Factory Default: This option resets the receiver and loads the factory default values.
- Software Upgrade: To update the receiver with other receiver or by satellite.
- SatcoDX Auto programming: To load SatcoDX channel lists.
- Smartcard and Serial Prot: Information about conditional access system and/or serial Dongle.

Safety Precaution

Caution......12
1. Panel & Remote Control Description......13
1.1. Front Panel Description......13
1.2. Rear Panel Description......13
1.3. Remote Control Description......14

2. Basic Operations......14
2.0. Switch on STB......15
2.1. Standby 15
2.2. TTX 15
2.3. Mute......15
2.4. Channel Number......15
2.5. Multi-Pictures......15
2.6. CH + / CH -......15
2.7. TV/RADIO......15
2.8. Vol+/Vol-......16
2.9. Exit......16
2.10. Menu-......16
2.11. Recall......16
2.12. Channel List......16
2.13. EPG......17
2.14. List......17
2.15. Favourites......17
2.16. Audio Track / Mode......17
2.17. Information......18
2.18. FAV +/-......18
2.19. Change Satellite......18
2.20. ZOOM......18
2.21. Subtitles......18
2.22. LNB Short......18

3. Channel......19
3.1. TV Channel List......19
3.1.1. Favourite......19
3.1.2. Move......20
3.1.3. Sort......20
3.1.4. Edit......20
3.1.4.1 Delete......20
3.1.4.2 Skip......20
3.1.4.3 Lock......20
3.1.4.4 Edit......21
3.1.5. Find......21
3.2. Radio Channel List......21

English

rev 1.1

3.3 Channel Setup.....21
3.3.1. Start-up Channel.....22
3.3.2. Channel Play Type.....22
3.4. Favourite Channel List Name.....22
3.5. Delete All.....22
3.6. Restore channel list and settings.....23
3.7. Save channel list and settings.....23

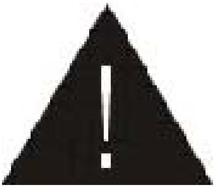
4. Installation.....24
4.1. Antenna Setup.....24
4.2. Single Search.....25
4.3. Multi Search.....25
4.4. TP Scan.....26
4.5. Satellite List.....27
4.6. TP List.....27
4.7. Satellite Guide.....28

5. System Setup.....29
5.1. Language.....29
5.2. TV System.....29
5.3. Time & Timer Setting.....30
5.3.1. Time.....30
5.3.2. Timer.....30
5.3.3. Sleep Timer.....31
5.4. OSD Setting.....31
5.5. Parental Lock.....32
5.6. LNB Power.....33
5.7. RCU Position Switch.....33

6. Tools.....34
6.1. Information.....34
6.2. Quick Setup.....34
6.3. Game.....35
6.3.1. Tetris.....35
6.3.2. Snake.....35
6.3.3. Othello.....35
6.4. Factory Default.....35
6.5. Software Update.....36
6.5.1. RS232 Upgrade.....36
6.5.2. Upgrade by Satellite.....36
6.6. SatcoDX Auto Programming.....36
6.7. Smart Card and Serial Port.....38

7. Technical Specification.....39

SAFETY PRECAUTION



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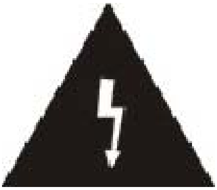

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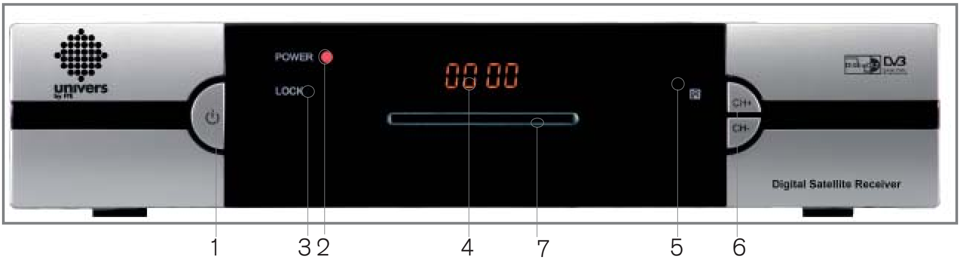
- In high humidity environment
- Outside the receiver’s temperature range (+5°...+40°C)

If the receiver is subject to severe temperature changes, it can suffer from water condensation inside. Switch off the receiver in these cases for at least 2 hours before resuming operation.

1. PANEL & REMOTE CONTROL DESCRIPTION

1.1. FRONT PANEL DESCRIPTION


univers by FTE
POWER
LOCK
0000
CH+
CH-
DVB
Digital Satellite Receiver
1
3
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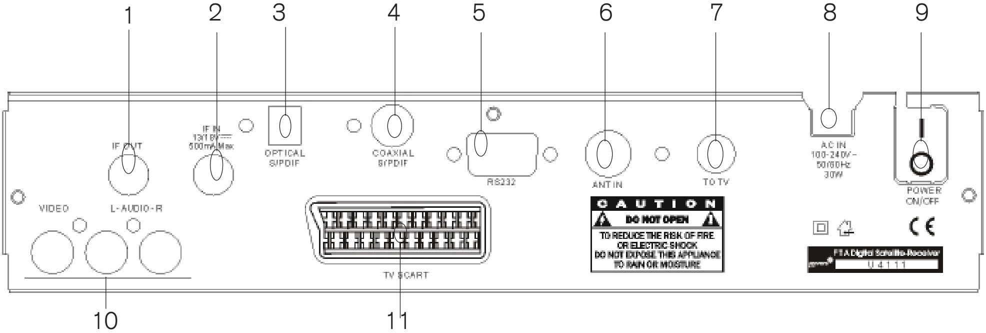
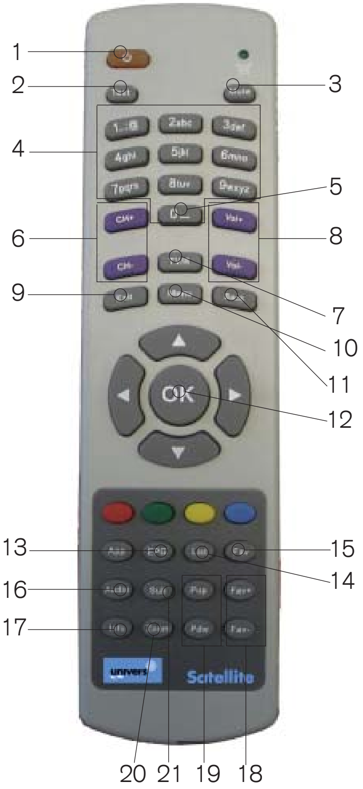
6

1. POWER: Switches the receiver on, or enters standby mode. To completely switch off the receiver, you have to use the switch on the back of the receiver.
2. POWER LED: Indicates that the mains voltage (90-230 VAC) is available.
3. LOCK LED: Indicates a sufficient signal level at the IF IN input.
4. DISPLAY: 4 Digits to display the program numbers.
5. IR-SENSOR: Reception sensor for the IR remote control signals.
6. CH+/-: These buttons allow changing the current channel.
7. Conditional Access: FELEC-CAS


1
2
3
4
5
6
7
8
9
IF OUT
IF IN 13/18V 500mA Max
OPTICAL S/PDIF
COAXIAL S/PDIF
RS232
ANT IN
TO TV
AC IN 100-240V~ 50/60Hz 30W
POWER ON/OFF
VIDEO
L-AUDIO-R
TV SCART
CAUTION
DO NOT OPEN
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE
CE
FTA Digital Satellite Receiver
U 4111
10
11

1. IF OUT: Satellite output for cascading to other devices.
   Note: The operation of another receiver at the same time is only possible with limited channel selection.
2. IF IN: Satellite input.
3. S/PDIF: Optical output for digital audio (AC3).
4. S/PDIF: Coaxial output for digital audio (AC3).
5. RS-232: Serial Port allowing software upgrades.
6. ANT IN: Antenna input for the terrestrial antenna.
7. TO TV: Modulator output for the connection to a TV set.
8. AC IN: Mains input cable.
9. POWER ON/OFF: Allows to completely switching off the receiver.
10. VIDEO / AUDIO: HiFi Outputs for stereo set or monitor
11. TV SCART: Output SCART for the connection to a TV set.

PANEL & REMOTE CONTROL DESCRIPTION



1.- Power
2.- Text
3.- Mute
4.- Numbers
5.- “0”
6.- CH+/CH-
7.- TV/R
8.- VOL+/VOL-
9.- Exit
10.- Menú
11.- Back
12.- OK
13.- EPG
14.- List
15.- Fav
16.- Audio
17.- Info
18.- Fav+/Fav-
19.- Pup/Pdw
20.- Zoom
21.- Sub

2. BASIC OPERATIONS

2.0. SWITCH ON STB

Switch the [Device’s Main Power] switch on.

When the STB is first used it will display the quick setup page where the receiver can be configured quickly.

For further use the STB will play the same channel as last time when it was switched off.

? FREQUENTLY ASKED QUESTION

Q: The power of my STB is on and it is running in TV mode but the TV screen shows nothing:

A: Make sure the TV set has been set to the correct video input (not the TV channels). For example, if you have connected the STB to the Video1 input of the TV set, then you need to select the corresponding Input on the TV. Mostly it is done with the AV button of the TVs remote control unit.

Q: My STB is running in TV mode but the TV screen shows nothing except one ball and “No Signal”.

A: That means the channel you selected has no signal. This can be caused by several reasons:

1. The channel you selected is not from the satellite to which your dish is pointing. Select another channel.

2. The signal of current TV channel is too weak. You can try to change to other channels with a stronger signal. If the problems still exist, please consult your local dealer or installer for technical service.

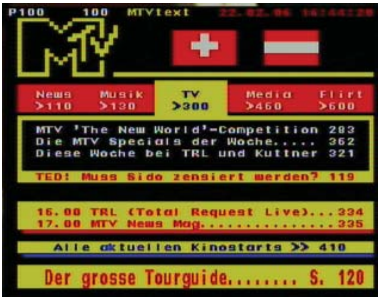
3. You selected the wrong LNB type in the installation menu or your DiSEqC switch configuration is not correct.

2.1. STANDBY

1. Press [Power] button to switch from TV mode to Standby mode.
2. In Standby mode press [Power] button again to switch back to TV mode. The last active channel will be showed.
3. To switch off the STB complete press the main power button (placed at the rear panel of the receiver).

2.2. TTX

1. Press [TXT] button in TV mode to open the teletext page (OSD 1). This service is depending on the support of the channel provider.
2. If the channel does not support teletext information, it will show “No Teletext Data” on the screen.


P100 100 MTVtext 22.02.06 16:44:28

News >110 Musik >120 TV >300 Media >460 Flirt >600

MTV 'The New World'-Competition 283
Die MTV Specials der Woche..... 362
Diese Woche bei TRL und Kuttner 321
TED! Muss Sido zensiert werden? 119

16.00 TRL (Total Request Live)...334
17.00 MTV News Mag...............335

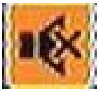
Alle aktuellen Kinostarts >> 410

Der grosse Tourguide........ S. 120

OSD 1

2.3. MUTE

1. Press the [Mute] button to mute the sound. On the screen an icon will be displayed to indicate the muted sound (OSD 2).
2. Press the [Mute] button again to restore the sound.



OSD 2

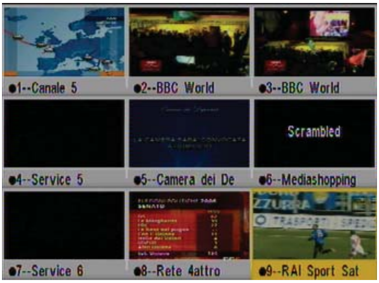
2.4. CHANNEL NUMBER

In TV mode you can enter the channel number directly with your remote control unit and confirm the number with the OK button to change to the desired channel.

2.5. MULTI-PICTURES

In TV mode, press [0] button to enter the Multi-Picture mode (OSD 3).

1. In Multi-Picture mode the screen will display 9 channels’ preview window (static), starting from the current channel. Only the marked preview program is continuously playing.
2. Press [▲▼◄►] to change the marked channel among the preview programs.
3. With the number buttons [1] ~ [9] you can directly move the highlight to the related channel.
4. With [OK] you return to full screen mode in the marked channel.



OSD 3

2.6. CH +/ CH -

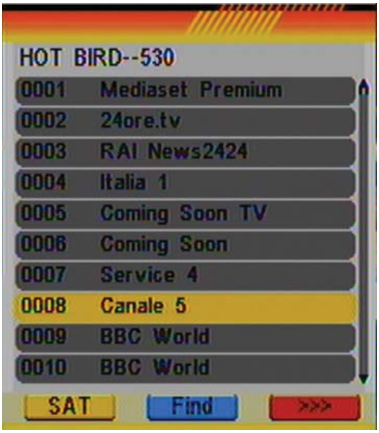
In TV mode press [CH+/CH-] to change channel.

2.7. TV/RADIO

In TV mode, press [TV/R] to switch to Radio mode. In Radio mode press [TV/R] again to switch back to TV mode.

English

rev 1.1


HOT BIRD--530
0001 Mediaset Premium
0002 24ore.tv
0003 RAI News2424
0004 Italia 1
0005 Coming Soon TV
0006 Coming Soon
0007 Service 4
0008 Canale 5
0009 BBC World
0010 BBC World
SAT
Find
>>>

OSD 4

2.8. VOL+/VOL-

In TV mode, press [Vol+/Vol-] to adjust volume.

2.9. EXIT

Press [Exit] button to exit the current menu.

2.10. MENU

Press [Menu] button to enter or exit the current menu.

2.11. RECALL

Pressing the [Back] button allows you to toggle between the actual and the last selected channel.

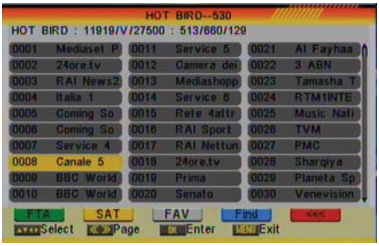
2.12. CHANNEL LIST

In TV mode press [OK] button to open the Channel List window.

Reduced Channel List (OSD 4):

You can use [▲▼◄►] keys to navigate this list.

1. Press [Yellow] button to open the SAT list. After selecting a satellite the channel list will be reduced to the channels of this satellite.
2. Press [Blue] button to open the “Find” window. You can use this feature to find channel by their names.
3. Press [Red] button to open the expanded channel list.
4. Once the desired channel is selected, press [OK[to change and display the marked channel.


HOT BIRD--530
HOT BIRD : 11919/V/27500 : 513/660/129
0001 Mediaset P
0002 24ore.tv
0003 RAI News2
0004 Italia 1
0005 Coming So
0006 Coming So
0007 Service 4
0008 Canale 5
0009 BBC World
0010 BBC World
0011 Service 5
0012 Camera dei
0013 Mediashopp
0014 Service 6
0015 Rete 4attr
0016 RAI Sport
0017 RAI Nettun
0018 24ore.tv
0019 Prima
0020 Senato
0021 Al Fayhaa
0022 3 ABN
0023 Tamasha T
0024 RTM1INTE
0025 Music Nati
0026 TVM
0027 PMC
0028 Sharqiya
0029 Planeta Sp
0030 Venevision
FTA
SAT
FAV
Find
<<<
Select
Page
Enter
Exit

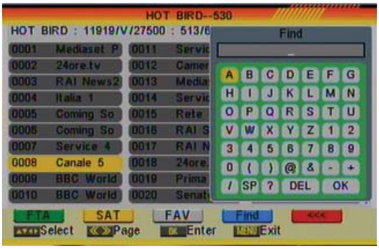
OSD 5

Expanded Channel List (OSD 5):

You can use [▲▼◄►] keys to navigate this list.

In this view, you can get more information about the frequency, polarity, symbol rate and PID of the selected channel.

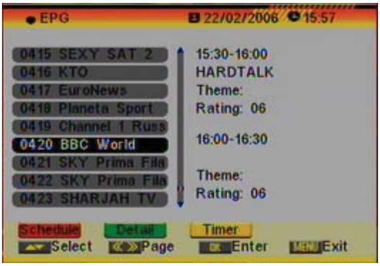
1. Press [Green] button to sort the channels by free and scrambled channels. Free channel are listed first and scrambled channels last.
2. Press [Yellow] button to open the SAT list. After selecting a satellite the channel list will be reduced to the channels of this satellite.
3. Press [FAV] button to open FAV list. After selecting a Favourite Group the channel list will be reduced to the channels of this group.
4. Press [Blue] button to open the “Find” window (OSD 6). You can use this feature to find channel by their names.
5. Press [Red] button to open the reduced channel list.
6. Once the desired channel is selected, press [OK[to change and display the marked channel.


HOT BIRD--530
HOT BIRD : 11919/V/27500 : 513/6
0001 Mediaset P
0002 24ore.tv
0003 RAI News2
0004 Italia 1
0005 Coming So
0006 Coming So
0007 Service 4
0008 Canale 5
0009 BBC World
0010 BBC World
0011 Servic
0012 Camer
0013 Media
0014 Servic
0015 Rete
0016 RAI S
0017 RAI N
0018 24ore.
0019 Prima
0020 Senat
Find
A B C D E F G
H I J K L M N
O P Q R S T U
V W X Y Z 1 2
3 4 5 6 7 8 9
0 ( ) @ & - +
/ SP ? DEL OK
FTA
SAT
FAV
Find
<<<
Select
Page
Enter
Exit

OSD 6

2.13. EPG

1. The STB supports Electronic Program Guides (EPG) to give you information about the actual programs of certain channels like event name, subtitle, description, start and finish time. This feature is depending on the service of the channel provider. Press [EPG] to open the EPG window (OSD 7).
2. The [Red] button opens the detailed schedule of the marked channel (OSD 8). You can select an event with [▲▼] and display the event's detailed description with [OK]. With the [Yellow] button you can program a timer with the start and finish time and date of this event.
3. Press the [Green] button in the EPG menu to display the detailed information of the actual event in the selected channel (OSD 9). With the [Red] button you can get more information about the events of the channel. With the [Yellow] button you can program a timer with the start and finish time and date of this event.
4. To close the EPG menu press [Exit].



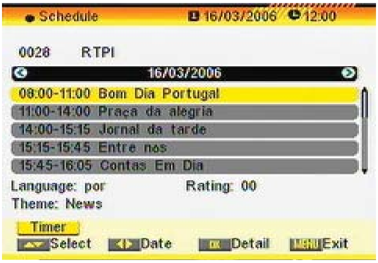
0415 SEXY SAT 2
0416 KTO
0417 EuroNews
0418 Planeta Sport
0419 Channel 1 Russ
0420 BBC World
0421 SKY Prima Fila
0422 SKY Prima Fila
0423 SHARJAH TV

15:30-16:00
HARDTALK
Theme:
Rating: 06

16:00-16:30

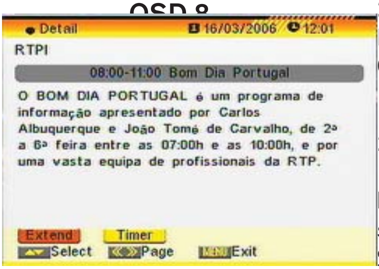
Theme:
Rating: 06

OSD 7



0028 RTPI
16/03/2006
08:00-11:00 Bom Dia Portugal
11:00-14:00 Praça da alegria
14:00-15:15 Jornal da tarde
15:15-15:45 Entre nós
15:45-16:05 Contas Em Dia
Language: por
Rating: 00
Theme: News

OSD 8



RTPI
08:00-11:00 Bom Dia Portugal

O BOM DIA PORTUGAL é um programa de informação apresentado por Carlos Albuquerque e João Tomé de Carvalho, de 2ª a 6ª feira entre as 07:00h e as 10:00h, e por uma vasta equipa de profissionais da RTP.

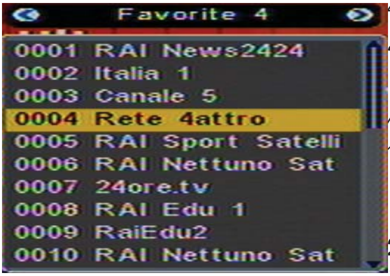
OSD 9

2.14. LIST

In TV mode, press [List] button to access directly to the "TV Channel List" menu or to the "Radio Channel List" menu.

2.15. FAVOURITES

1. In TV mode press the [Favourite] button to display the Favourite Group window on the screen as the picture beside shows (OSD 10).
2. In the Favourite Group window you can select the desired favourite channel with [▲▼] and confirm it with [OK] to switch to it. In bigger groups you can navigate with [Pup/Pdw].
3. With [◄►] you can select different Favourite Group.
4. Press [Exit] to close the Favourite Group window.



0001 RAI News2424
0002 Italia 1
0003 Canale 5
0004 Rete 4attro
0005 RAI Sport Satelli
0006 RAI Nettuno Sat
0007 24ore.tv
0008 RAI Edu 1
0009 RaiEdu2
0010 RAI Nettuno Sat

OSD 10

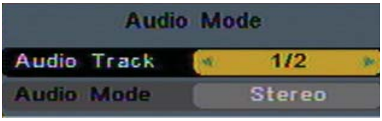
? FREQUENTLY ASKED QUESTION

Q: Why the screen displays "No Favourite Channel" after pressing the [Favourite] button?

A: No channels have been assigned to a Favourite Group yet. You can do this in the channel menu.

2.16. AUDIO TRACK / MODE

1. In TV mode, press the [Audio] button to open the Audio Mode window (OSD 11).
2. Select the item you want to adjust with [▲▼] and change the value with [◄►].
3. Press [Exit] to leave this window.

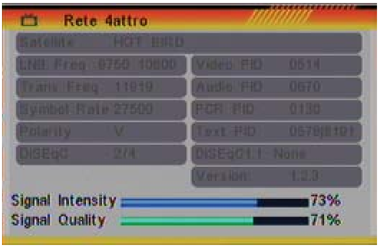


Audio Track 1/2
Audio Mode Stereo

OSD 11

rev 1.1

English



Rete 4attro

Satellite HOT BIRD

LNB Freq 9750 10600 | Video PID 0514

Trans Freq 11919 | Audio PID 0670

Symbol Rate 27500 | PCR PID 0130

Polarity V | Text PID 0578|8191

DiSEqC 2/4 | DiSEqC1.1 None

Version 1.2.3

Signal Intensity 73%

Signal Quality 71%

OSD 12

2.17. INFORMATION

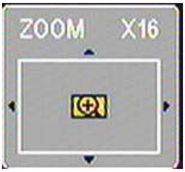
In TV mode, press [INFO] button can open information screen (OSD 12), in the window shows the parameters of current channel.

2.18. FAV +/-

1. In TV mode press the [FAV+/FAV-] buttons to switch between the favourites channels in the current Favourite Group directly.
2. The sequence of the favourite channels is following the sequence in the related Favourite Group list.

2.19. CHANGE SATELLITE

1. In TV mode, press [Pup/Pdw] to switch directly between satellites.



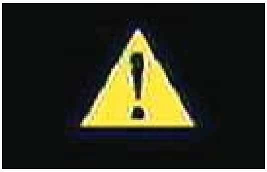
OSD 13

2.20. ZOOM

1. Press [Zoom] button in TV mode to zoom the image. Image can be augmented x16 times (OSD 13).
2. Press [Exit] to exit this function.

2.21. SUBTITLES

In TV mode, press [Sub] button for activating / deactivating the channel subtitles, depending on the provider information.

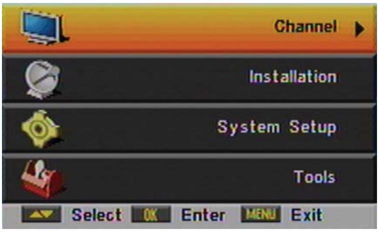


OSD 14

2.22. LNB SHORT

When LNB is short, it will notify user on screen “LNB Short!” (OSD 14). Please check your cables and connections for shorts. When the short is removed the warning message will disappear.

3. CHANNEL


Channel
Installation
System Setup
Tools
Select
OK
Enter
MENU
Exit

OSD 15

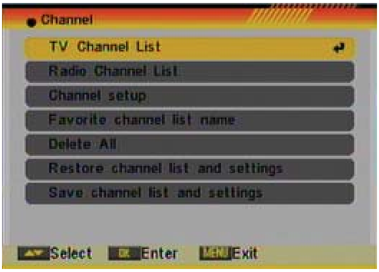
Press [Menu] in the TV mode to enter the main menu (OSD 15).

1. Press [▲▼] to select the Channel item.
2. Press [OK] to enter the selected item.

In the Channel menu (OSD 16):

3. Press [▲▼] to select the wanted menu item.
4. Press [OK] to enter the selected item among.

- TV Channel List
- Radio Channel List
- Channel setup
- Favourite channel list name
- Delete All
- Restore channel list and settings
- Save channel list and settings

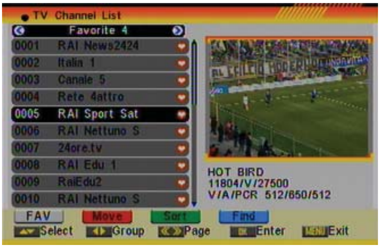

Channel
TV Channel List
Radio Channel List
Channel setup
Favorite channel list name
Delete All
Restore channel list and settings
Save channel list and settings
Select
Enter
Exit

OSD 16

3.1. TV CHANNEL LIST

If you enter the Channel List menu a window like the one besides will open (OSD 17).

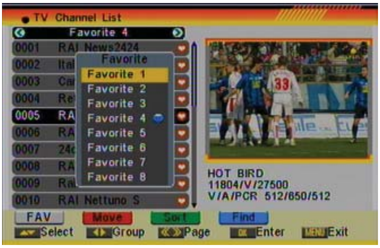
1. You can move the highlighted channel with [▲▼] and press [OK] to preview the highlighted program in the preview window.
2. You can enter directly the number of the desired channel with the remote control. The selection will select that channel, but it will not be previewed until you confirm with [OK] button.
3. Press [Pup/Pdw] on the RCU to jump between the channels by pages.
4. Press [◄ ►] to switch the Program Group.
5. Press [Menu] or [Exit] buttons to enter TV mode playing mode.
6. The colour buttons offer further functions to manage the channel list.


TV Channel List
Favorite 4
0001 RAI News2424
0002 Italia 1
0003 Canale 5
0004 Rete 4attro
0005 RAI Sport Sat
0006 RAI Nettuno S
0007 24ore.tv
0008 RAI Edu 1
0009 RaiEdu2
0010 RAI Nettuno S
HOT BIRD
11804/V/27500
V/A/PCR 512/650/512
FAV
Move
Sort
Find
Select
Group
Page
Enter
Exit

OSD 17

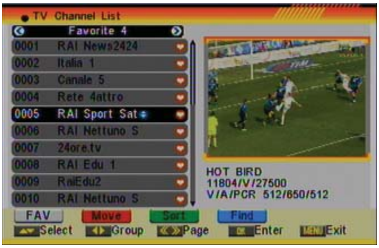
3.1.1. FAVOURITE

1. Press [FAV] to open the Favourite window (OSD 18).
2. You can select between 8 favourites groups with [▲▼]. Press [OK] to assign the channel to a Favourite group.
3. Press [OK] again to remove the channel from the marked Favourite group.
4. Press [Exit] button to return to the TV Channel List. The channels of Favourites Groups are indicated with a favourite icon behind the name.


TV Channel List
Favorite 4
Favorite
Favorite 1
Favorite 2
Favorite 3
Favorite 4
Favorite 5
Favorite 6
Favorite 7
Favorite 8
0010 RAI Nettuno S
HOT BIRD
11804/V/27500
V/A/PCR 512/650/512
FAV
Move
Sort
Find
Select
Group
Page
Enter
Exit

OSD 18

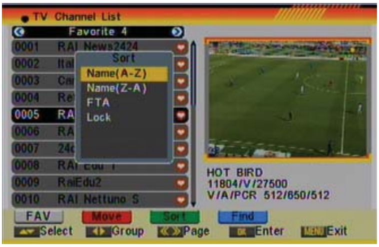
English


TV Channel List
Favorite 4
0001 RAI News2424
0002 Italia 1
0003 Canale 5
0004 Rete 4attro
0005 RAI Sport Sat
0006 RAI Nettuno S
0007 24ore.tv
0008 RAI Edu 1
0009 RaiEdu2
0010 RAI Nettuno S
HOT BIRD
11804/V/27500
V/A/PCR 512/650/512
FAV
Move
Sort
Find
Select
Group
Page
Enter
Exit

OSD 19

3.1.2. MOVE

1. Press [Red] button to show a moving icon behind the channel name (OSD 19).
2. Move the channel to the desired position with [▲▼]. Press [OK] to confirm the position.

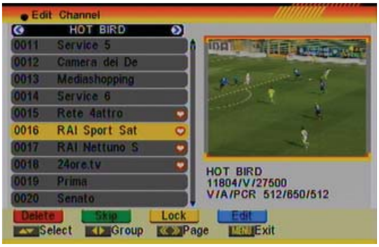

TV Channel List
Favorite 4
0001 RAI News2424
0002 Ital
0003 Car
0004 Re
0005 RA
0006 RA
0007 24
0008 RAI Edu 1
0009 RaiEdu2
0010 RAI Nettuno S
Sort
Name(A-Z)
Name(Z-A)
FTA
Lock
HOT BIRD
11804/V/27500
V/A/PCR 512/650/512
FAV
Move
Sort
Find
Select
Group
Page
Enter
Exit

OSD 20

3.1.3. SORT

1. Press [Green] to open the Sort window (OSD 20). Press [▲▼] to select and [OK] to confirm your choice.
2. The ways of sorting are:

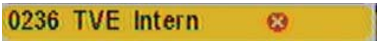
- Name (A-Z): Sorting in Alphabetical Order, ignoring “$” symbol.
- Name (Z-A): Sorting in Alphabetical Order, ignoring “$” symbol.
- FTA: Sort channel by free and scrambled sequence. Free channels will be listed first and scrambled channels behind in the channel list.
- Lock: Unlocked channels are listed first end locked channels at the end.


Edit Channel
HOT BIRD
0011 Service 5
0012 Camera dei De
0013 Mediashopping
0014 Service 6
0015 Rete 4attro
0016 RAI Sport Sat
0017 RAI Nettuno S
0018 24ore.tv
0019 Prima
0020 Senato
HOT BIRD
11804/V/27500
V/A/PCR 512/650/512
Delete
Skip
Lock
Edit
Select
Group
Page
Exit

OSD 21

3.1.4. EDIT

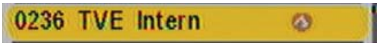
1. After pressing the [Yellow] button a window for entering the password will open. The default password is “0000”.
2. You can Delete, Skip, Lock and Edit the channel (OSD 21).
3. Press [Exit] to leave the Channel Editing. The system will ask you to confirm the saving of the changes you made.


0236 TVE Intern

OSD 22

3.1.4.1 DELETE

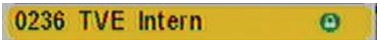
In Channel Edit menu press [Red] button to mark a channel for deleting. Marked channels (OSD 22) will be deleted after you confirm to save the changes when you leave this menu.


0236 TVE Intern

OSD 23

3.1.4.2 SKIP

In Channel Edit menu, press [Green] button to place a Skip icon behind the name of the highlighted channel. Marked channels (OSD 23) will be skipped when you change channels in TV mode after you confirm to save the changes when you leave this menu.


0236 TVE Intern

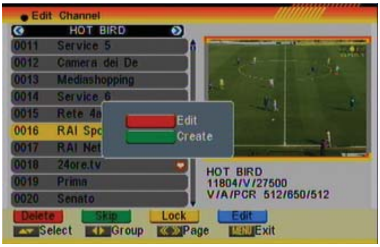
OSD 24

3.1.4.3 LOCK

In Channel Edit menu, press [Yellow] button to place a Lock icon behind the name of the highlighted channel. Marked channels (OSD 24) will be locked and displayed only after password has been entered if you confirm to save the changes when you leave this menu.

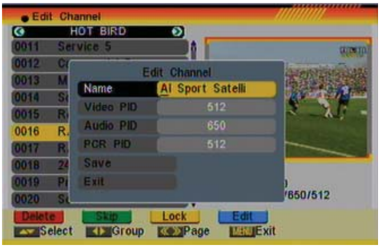
3.1.4.4 EDIT

Pressing the [Blue] button in the TV Channel List Edit menu will open another window where you can choose between Edit the actual channel or create a new channel (OSD 25).


Edit Channel
HOT BIRD
0011 Service 5
0012 Camera dei De
0013 Mediashopping
0014 Service 6
0015 Rete 4a
0016 RAI Spo
0017 RAI Net
0018 24ore.tv
0019 Prima
0020 Senato
Edit
Create
HOT BIRD
11804/V/27500
V/A/PCR 512/650/512
Delete
Skip
Lock
Edit
Select
Group
Page
Exit

OSD 25

1. Edit current channel: To edit the channel press the [Red] button (OSD 26).
- Name: You can edit the name of the current channel using the keys on the remote control.
- On the “Video PID”, “Audio PID” and “PCR PID” items you can input numbers to modify the item’s value.
- After modification select “Save” and press [OK] button to save the modified values and exit “Edit” mode. Or select “Exit” and press [OK] to leave Edit mode without saving the modifications.

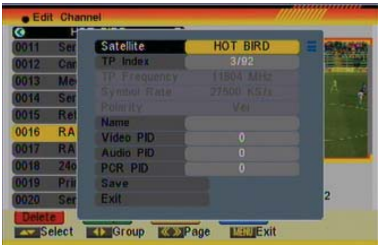

Edit Channel

Name: Al Sport Satelli
Video PID: 512
Audio PID: 650
PCR PID: 512
Save
Exit

Edit Channel
HOT BIRD
0011 Service 5
0012 C
0013 M
0014 S
0015 R
0016 R
0017 R
0018 24
0019 Pi
0020 S
/650/512
Delete
Skip
Lock
Edit
Select
Group
Page
Exit

OSD 26

2. Create: Press [Green] button to open the Create window (OSD 27).
- Press [OK] button on the “Satellite” item to display the satellite list. You can select the satellite for which you want to create a new channel.
- With marked “TP Index” item press [◄ ►] to select the TP number where the channel can be found. The next three items will show the related parameters.
- Highlight the “Name” item and edit the name of the current channel using the keys on the remote control.
- In “Video PID”, “Audio PID” and “PCR PID” items you can enter the numbers directly to set these parameters of the new channel.
- After modification select “Save” and press [OK] to save the new channel and leave the Edit mode. Select “Exit” and press [OK] to exit the Edit mode without saving the new channel.

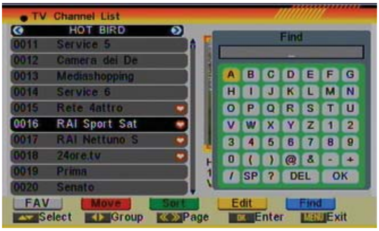

Satellite: HOT BIRD
TP Index: 3/92
TP Frequency: 11804 MHz
Symbol Rate: 27500 KS/s
Polarity: Ver
Name:
Video PID: 0
Audio PID: 0
PCR PID: 0
Save
Exit

Edit Channel
0011 Ser
0012 Car
0013 Me
0014 Ser
0015 Ret
0016 RA
0017 RA
0018 240
0019 Pri
0020 Ser
Delete
Select
Group
Page
Exit

OSD 27

3.1.5. FIND

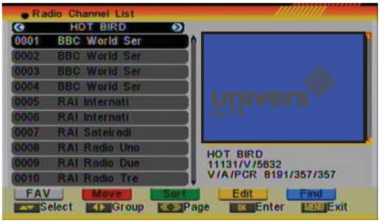
1. Press [Blue] button to open the “Find” window like showed besides (OSD 28). Press [▲ ▼ ◄ ►] to select the leading character of the channel name and press [OK] to confirm it.
2. After entering the character(s) highlight “OK” in the window and press [OK] on the RCU.
3. Press [Exit] button to close the Find window and brings you back to the channel list.


TV Channel List
HOT BIRD
0011 Service 5
0012 Camera dei De
0013 Mediashopping
0014 Service 6
0015 Rete 4attro
0016 RAI Sport Sat
0017 RAI Nettuno S
0018 24ore.tv
0019 Prima
0020 Senato
Find
A B C D E F G
H I J K L M N
O P Q R S T U
V W X Y Z 1 2
3 4 5 6 7 8 9
0 ( ) @ & - +
/ SP ? DEL OK
FAV
Move
Sort
Edit
Find
Select
Group
Page
Enter
Exit

OSD 28

3.2. RADIO CHANNEL LIST

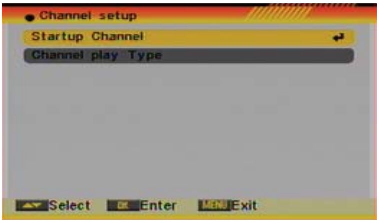
Basically the operation of “Radio Channel List” is same as “TV Channel List”, except that in the small channel window the univers Logo will be displayed (OSD 29).


Radio Channel List
HOT BIRD
0001 BBC World Ser
0002 BBC World Ser
0003 BBC World Ser
0004 BBC World Ser
0005 RAI Internati
0006 RAI Internati
0007 RAI Satelradi
0008 RAI Radio Uno
0009 RAI Radio Due
0010 RAI Radio Tre
univers by FTE
HOT BIRD
11131/V/5832
V/A/PCR 8191/357/357
FAV
Move
Sort
Edit
Find
Select
Group
Page
Enter
Exit

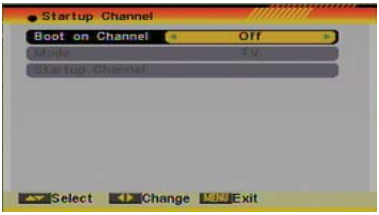
OSD 29

3.3. CHANNEL SETUP

When you enter the “Channel Setup” menu you will see a screen like beside (OSD 30):


Channel setup
Startup Channel
Channel play Type
Select
OK Enter
MENU Exit

OSD 30


Startup Channel
Mode
Startup Channel
Select
Change
MENU Exit

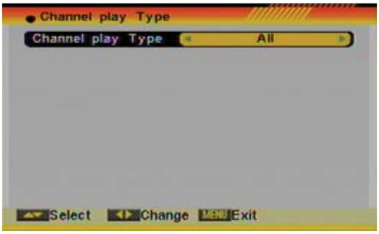
Boot on Channel: Off
Mode: TV

OSD 31

3.3.1. START-UP CHANNEL

Press [OK] to enter "Start-up Channel" menu to see the screen like showed beside (OSD 31):

1. If you set of "Boot on Channel" to "On" you can edit the following two items. If the setting is "Off" the box always starts with the channel that was running when the box has been switched off.
2. On the "Mode" item you can select either "TV channel" or "Radio channel".
3. On "Start-up Channel" item you can open the channel list by pressing [OK]. Then you can select the channel of you choice. Press [OK] again to confirm.


Channel play Type
Select
Change
MENU Exit

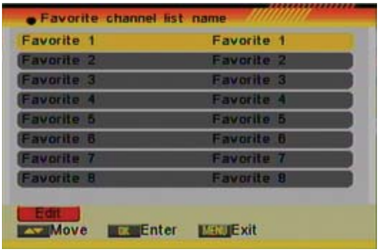
Channel play Type: All

OSD 32

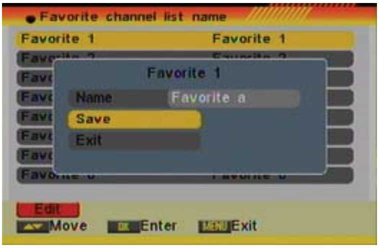
3.3.2. CHANNEL PLAY TYPE

Press [OK] to enter "Channel Play Type" menu (OSD 32).

1. Here you can select the "playing channels" as "Free", "Scrambled" or "All".
2. If you select "Free" then all scrambled channels will be skipped when you change channels with [CH+/-].
3. Press [Exit] to leave the "Channel Setup" menu.


Favorite channel list name
Favorite 1 Favorite 1
Favorite 2 Favorite 2
Favorite 3 Favorite 3
Favorite 4 Favorite 4
Favorite 5 Favorite 5
Favorite 6 Favorite 6
Favorite 7 Favorite 7
Favorite 8 Favorite 8
Edit
Move
OK Enter
MENU Exit

OSD 33


Favorite channel list name
Favorite 1 Favorite 1
Favorite 1
Save
Exit
Edit
Move
OK Enter
MENU Exit

Name: Favorite a

OSD 34

3.4. FAVOURITE CHANNEL LIST NAME

In this menu, user is able to change the name of the Favourite Groups. Press [OK] to enter this menu and you will see a screen like beside (OSD 33).

To change the name of the Favourites Groups:

1. Press [▲▼] and select a Favorite Group.
2. Press [Red] button to edit the name of the Group.
3. Once the name is correct, select "Save" option and confirm pressing [OK] (OSD 34).
4. If the name is used by other group, an alert message will appear on the TV.
5. Select "Exit" and press [OK] to leave this menu.

3.5. DELETE ALL

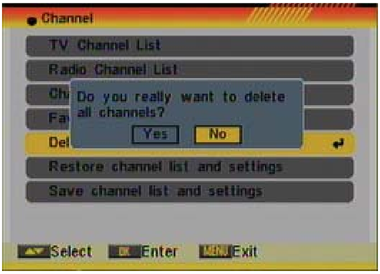
To delete all channels:

1. Enter the password. The default password is "0000".
2. After entering the password correct a safety question will show up where you have to confirm first (OSD 35 next page).
3. Select "Yes" to delete all channels or "No" to cancel and confirm with [OK].
4. In step 2 and step 3, pressing [Exit] will exit the function directly without saving.

? FREQUENTLY ASKED QUESTION

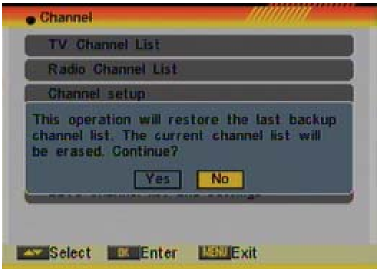
Q: IF I incautiously delete all channels, what should I do?

A: There are three ways to restore:


Channel
TV Channel List
Radio Channel List
Ch
Fa
Del
Restore channel list and settings
Save channel list and settings
Yes
No
Select
OK
Enter
MENU
Exit

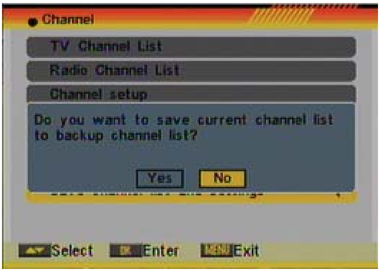
Do you really want to delete all channels?

OSD 35


Channel
TV Channel List
Radio Channel List
Channel setup
Yes
No
Select
OK
Enter
MENU
Exit

This operation will restore the last backup channel list. The current channel list will be erased. Continue?

OSD 36


Channel
TV Channel List
Radio Channel List
Channel setup
Yes
No
Select
OK
Enter
MENU
Exit

Do you want to save current channel list to backup channel list?

OSD 37

- *To re-search all channels at the "Installation" menu.*
- *Use "Factory Default" function to restore all channels in the "Tools" menu. The receiver will load the factory channels.*
- *Use the "Restore channel list and settings" option as next point shows.*

3.6. RESTORE CHANNEL LIST AND SETTINGS

Using this option, the receiver will load the channels saved as previously as a backup of the user channels list (see point 3.7.). For restoring the default channels, please:

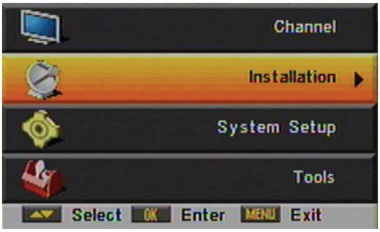
1. Enter the password. The default password is "0000".
2. After entering the password correct a safety question will show up where you have to confirm first (OSD 36).
3. Select "Yes" to delete all channels or "No" to cancel and confirm with [OK].
4. In step 2 and step 3, pressing [Exit] will exit the function directly without saving.

3.7 SAVE CHANNEL LIST AND SETTINGS

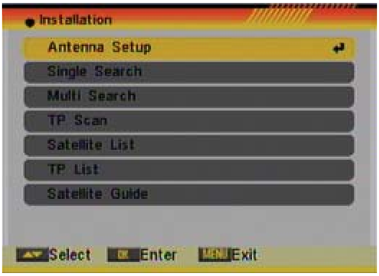
This option is very important, because here is where the security of your data lies. This option makes a backup of the channel list and it will allow restoring the channel list even thought after a factory default.

Once you have customized your receiver and everything operates properly, you have the possibility, with this option, to save the programs' data.

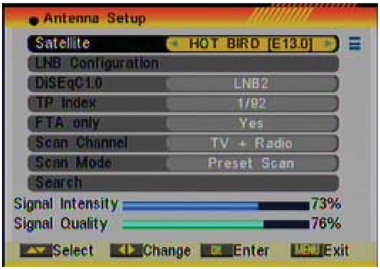
1. Enter the password. The default password is "0000".
2. After entering the password correct a safety question will show up where you have to confirm first (OSD 37).
3. Select "Yes" to delete all channels or "No" to cancel and confirm with [OK].
4. In step 2 and step 3, pressing [Exit] will exit the function directly without saving.


Channel
Installation
System Setup
Tools
Select
OK Enter
MENU Exit

OSD 38

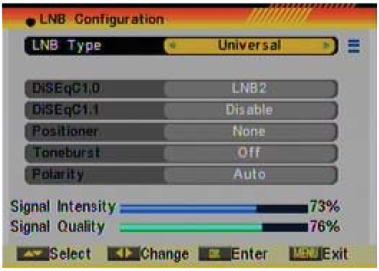

Installation
Antenna Setup
Single Search
Multi Search
TP Scan
Satellite List
TP List
Satellite Guide
Select
Enter
Exit

OSD 39


Antenna Setup
Select
Change
Enter
Exit

Satellite: HOT BIRD [E13.0]
LNB Configuration
DiSEqC1.0: LNB2
TP Index: 1/92
FTA only: Yes
Scan Channel: TV + Radio
Scan Mode: Preset Scan
Search
Signal Intensity: 73%
Signal Quality: 76%

OSD 40


LNB Configuration
Select
Change
Enter
Exit

LNB Type: Universal
DiSEqC1.0: LNB2
DiSEqC1.1: Disable
Positioner: None
Toneburst: Off
Polarity: Auto
Signal Intensity: 73%
Signal Quality: 76%

OSD 41

4. INSTALLATION

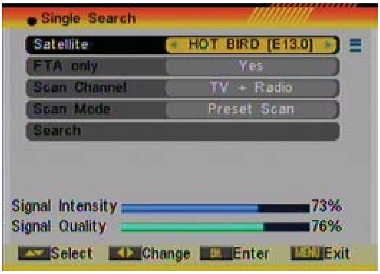
Press [Menu] in the TV mode to enter the main menu (OSD 38).
1. Press [▲▼] to select the Installation item.
2. Press [OK] to enter the selected item.
In the Installation menu (OSD 39):
3. Press [▲▼] to select the wanted menu item.
4. Press [OK] to enter the selected item among.
- Antenna Setup
- Single Search
- Multi Search
- TP Scan
- Satellite List
- TP List
- Satellite Guide

4.1. ANTENNA SETUP

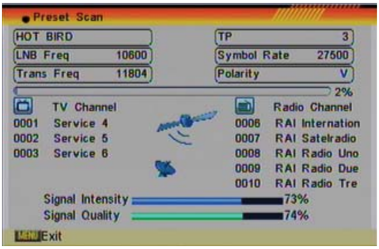
After selecting Antenna Setup another window will be opened (OSD 40).
You can edit the following items:
1. Satellite: Press [◄►] to switch Satellites or press [OK] to enter satellite list to select directly.
2. LNB Configuration: Selecting this option and pressing [OK], the LNB Configuration menu will be displayed (OSD 41). In this menu, next options can be modified:
- LNB Type: Press [◄►] to switch among “Standard”, “User” and “Universal” mode. If you select “Standard” or “User”, the frequency of the LNB can be changed. Pressing [OK] the frequencies will appear to be edited. Select the frequency you want to edit and change the value with [◄►]
- 22K: Use [◄►] to switch “ON” and “Off”. The 22 kHz signal is used in KU Universal LNBs to change between low band and high band. After choosing LNB type “Universal” you cannot modify 22K.
- DiSEqC1.0: Use [◄►] to switch the options of DiSEqC switches.
- DiSEqC1.1: Use [◄► to switch the options of DiSEqC1.1 switches.
- Positioner: Press [◄► to select between “None / DiSEqC1.2 / USALS”.
- Toneburst: Press [◄►] to switch this function “On” or “Off”.
- Polarity: Press [◄►] to switch between “Auto / H / V”.

Once the LNB is configured, press [Exit] to save the changes and go to the previous window to continue configuring the antenna.
3. DiSEqC1.0: Use [◄►] to switch the options of DiSEqC

switches.
4. On “TP Index” item use [◄ ►] to select the desired transponder.
5. In the “FTA Only” item, press [◄ ►] to select to scan only free channels or even scrambled channels. If you select “Yes” it will scan free channels only.
6. In “Scan Channel” item, press [◄ ►] to select to scan TV + Radio Channels, or just TV channels or just Radio channels.
7. In “Scan Mode” item you can select “Auto Scan” to blind scan or “Preset Scan” to scan all preset transponders.
8. Move the highlight to “Search” and press [OK] button to start scanning. Bars are showing the progress of the channel scanning in the lower part of the window and the found channels are listed.
You can stop the scan with [Exit] and save the so far found channels.
9. Press [Exit] to exit this menu. A window to confirm the changes will appear.


Single Search
Satellite: HOT BIRD [E13.0]
FTA only: Yes
Scan Channel: TV + Radio
Scan Mode: Preset Scan
Search
Signal Intensity 73%
Signal Quality 76%

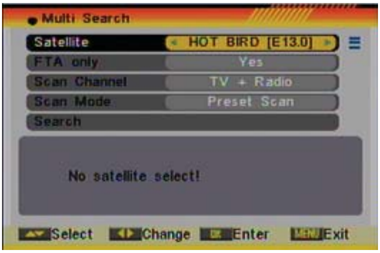
OSD 42


Preset Scan
HOT BIRD
LNB Freq 10600
Trans Freq 11804
TP 3
Symbol Rate 27500
Polarity V
2%
TV Channel
0001 Service 4
0002 Service 5
0003 Service 6
Radio Channel
0006 RAI Internation
0007 RAI Satelradio
0008 RAI Radio Uno
0009 RAI Radio Due
0010 RAI Radio Tre
Signal Intensity 73%
Signal Quality 74%

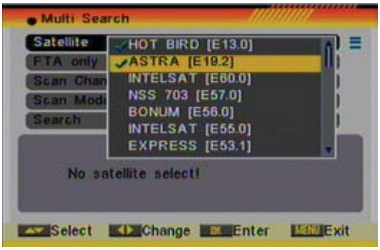
OSD 43

4.2. SINGLE SEARCH

After selecting “Single Search” you will see a window like beside (OSD 42):
1. In the “Satellite” item press [◄ ►] to select the satellite which you want to scan or press [OK] to open the “satellite list” to select directly.
2. In the “FTA Only” item, press [◄ ►] to select to scan only free channels or even scrambled channels. If you select “Yes” it will scan free channels only.
3. In “Scan Channel” item, press [◄ ►] to select to scan TV + Radio Channels, or just TV channels or just Radio channels.
4. In “Scan Mode” item you can select “Auto Scan” to blind scan or “Preset Scan” to scan all preset transponders.
5. Move the highlight to “Search” and press [OK] button to start scanning. Bars are showing the progress of the channel scanning in the lower part of the window and the found channels are listed (OSD 43).
6. You can stop the scan with [Exit] and save the so far found channels.


Multi Search
Satellite: HOT BIRD [E13.0]
FTA only: Yes
Scan Channel: TV + Radio
Scan Mode: Preset Scan
Search
No satellite select!

OSD 44

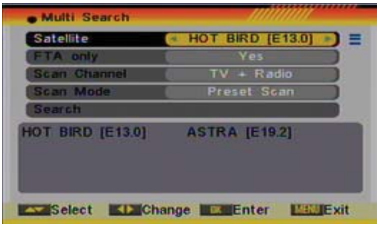

Multi Search
Satellite
FTA only
Scan Chan
Scan Mod
Search
✓ HOT BIRD [E13.0]
✓ ASTRA [E19.2]
INTELSAT [E60.0]
NSS 703 [E57.0]
BONUM [E56.0]
INTELSAT [E55.0]
EXPRESS [E53.1]
No satellite select!

OSD 45

4.3. MULTI SEARCH

When you enter the “Multi Search” menu a window like the one beside will open (OSD 44).
1. On “Satellite” item press [OK] to open the satellite list (OSD 45). Then press [▲ ▼] to move the highlight and press [OK] to mark/unmark and [EXIT] to finish the selection. You can select several satellites in this menu. At the bottom of the screen you can see the selected satellites (OSD 46 next page). The system will use DiSEqC1.0/1.1, DiSEqC1.2 and USALS

English



Multi Search

Satellite	HOT BIRD [E13.0]
FTA only	Yes
Scan Channel	TV + Radio
Scan Mode	Preset Scan
Search	

HOT BIRD [E13.0] ASTRA [E19.2]

OSD 46

functions to search the marked satellites and scan channels.

2. On “FTA Only” item, press [◄ ►] to select scanning of all channels or just scanning of free channels. If you select “Yes” it will scan free channels only.

3. On “Scan Channel” item, press [◄ ►] to select the scanning range from TV + Radio Channels, only TV channels or only Radio channels.

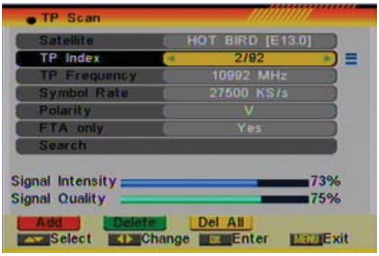
4. On “Scan Mode” item, you can select “Auto Scan” to make a blind scan or “Preset Scan” to scan all preset transponders of the selected satellites.

5. Select “Search” and press [OK] to start scanning. In the lower part of the window the progress of scanning and the found channels are displayed.

6. Press [Exit] to cancel or finish the scanning and saving the found channels.

4.4. TP SCAN

When you enter “TP Scan” menu a window like the one beside will be displayed (OSD 47).



TP Scan

Satellite	HOT BIRD [E13.0]
TP Index	2/92
TP Frequency	10992 MHz
Symbol Rate	27500 KS/s
Polarity	V
FTA only	Yes
Search	

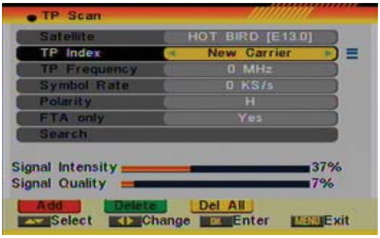
Signal Intensity 73%
Signal Quality 75%

OSD 47

1. On “Satellite” item, press [◄ ►] to select the satellite you want to scan or press [OK] to open the satellite list for selection.

2. On “TP Index” item use [◄ ►] to select the desired transponder. In this item you can also add, delete or delete all TP.

- Press [Red] button to add a new TP (OSD 48). You have to set the parameters of “TP Frequency” and “Symbol Rate” for this new transponder. Therefore use the number buttons of the RCU. The available range are “3000~13450 MHz” and “1000~45000KS/s”.



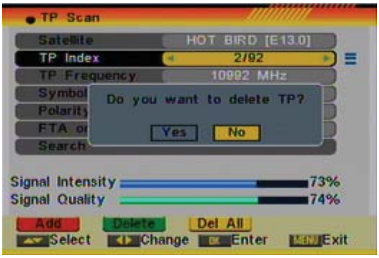
TP Scan

Satellite	HOT BIRD [E13.0]
TP Index	New Carrier
TP Frequency	0 MHz
Symbol Rate	0 KS/s
Polarity	H
FTA only	Yes
Search	

Signal Intensity 37%
Signal Quality 7%

OSD 48

- Press [Green] button to delete the current TP. A safety question will be displayed for confirmation to delete the current transponder or not (OSD 49). If you select “Yes”, the current transponder will be deleted and the total number of transponders will be reduced.



TP Scan

Satellite	HOT BIRD [E13.0]
TP Index	2/92
TP Frequency	10992 MHz

Do you want to delete TP?

Signal Intensity 73%
Signal Quality 74%

OSD 49

- Press [Yellow] button to delete all TP. A safety question will be displayed for confirmation to delete all transponders or not. If you select “Yes”, all transponders will be deleted.

3. For existing transponders you also can use number buttons to modify the parameters of “TP Frequency” and “Symbol Rate” or [◄ ►] to change the value directly. “Polarity” and “Scan Mode” are used for setting scans conditions. Press [◄ ►] to select a different mode.

4. Polarity: Press [◄ ►] to switch between “Auto / H / V”.

5. On “FTA Only” item, press [◄ ►] to select scanning of all channels or just scanning of free channels. If you select “Yes” it will scan free channels only.

6. After you completed your modification select the “Search” item and press [OK] to start scanning.

7. On the “TP Scan” item, press [Exit] to cancel the scanning and saving the found channels.

4.5. SATELLITE LIST

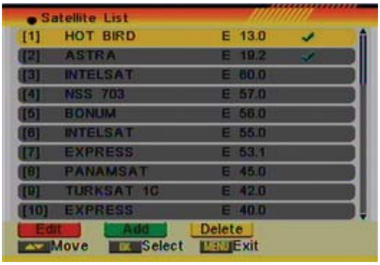
When you enter the “Satellite List” menu you can see a window like the one beside (OSD 50):

1. Move through the satellite list using [▲▼] and mark/unmark the satellites that you want pressing [OK]

2. Press [Red] button to enter edit satellite menu (OSD 51). You can edit the satellite’s name and its longitude. Once you have edited the satellite, select “Save” option and confirm with [OK]. If you prefer to exit without saving the changes select “Exit” and press [OK].

3. Press [Green] button to open the “Add satellite” window. You can edit the satellite’s name and its longitude. Once you have edited the satellite, select “Save” option and confirm with [OK]. If you prefer to exit without saving the changes select “Exit” and press [OK].

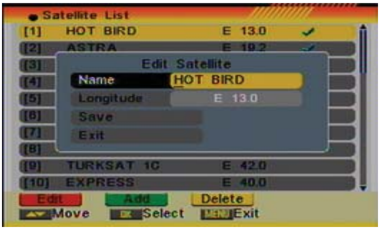
4. After pressing [Yellow] button you will be asked “Are you sure to delete?” (OSD 52). Select “Yes” to delete the marked satellite. Select “No” to cancel the operation.



Satellite List

[1]	HOT BIRD	E 13.0	✓
[2]	ASTRA	E 19.2	✓
[3]	INTELSAT	E 60.0	
[4]	NSS 703	E 57.0	
[5]	BONUM	E 56.0	
[6]	INTELSAT	E 55.0	
[7]	EXPRESS	E 53.1	
[8]	PANAMSAT	E 45.0	
[9]	TURKSAT 1C	E 42.0	
[10]	EXPRESS	E 40.0	

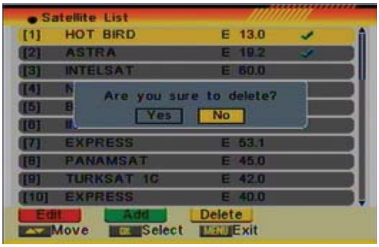
OSD 50



Edit Satellite

Name: HOT BIRD
Longitude: E 13.0
Save
Exit

OSD 51



Are you sure to delete?

OSD 52

4.6. TP LIST

When you open the “TP List” menu you will see a window like the one beside (OSD 53).

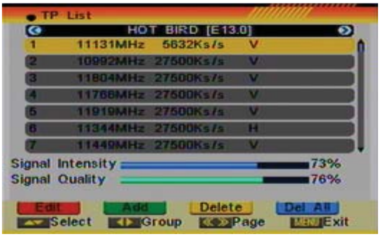
1. Press [◄ ►] to change the marked satellite. Press [▲▼] to change the marked TP.

2. Press [Red] button to open the “Edit TP” menu (OSD 54). Here you can edit the Transponder’s data like frequency, polarity and Symbol Rate. In this window, the search of the channels of the TP can be done selecting the “Search” option and pressing [OK].

3. Press [Green] button to open the “Add TP” menu (OSD 55 next page). Here you can add a new TP and setup its parameters like frequency, polarity and Symbol Rate. In this window, the search of the channels of the TP can be done selecting the “Search” option and pressing [OK].

4. Press [Yellow] button will open a dialog box asking you to confirm the deletion of the current TP (OSD 56 next page). If you select “Yes” all the related channels will be deleted. If you select “No” the operation will be cancelled.

5. Pressing the [Blue] button will open a dialog box asking you to confirm the deletion of all Transponders. If you select “Yes”, all channels of the current satellite will be deleted. If you select “No” the operation will be cancelled.

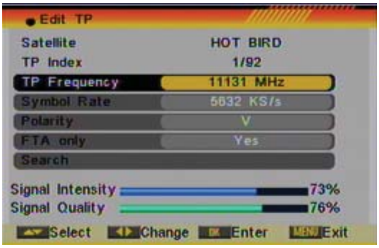


TP List — HOT BIRD [E 13.0]

1	11131MHz	5632Ks/s	V
2	10992MHz	27500Ks/s	V
3	11804MHz	27500Ks/s	V
4	11766MHz	27500Ks/s	V
5	11919MHz	27500Ks/s	V
6	11344MHz	27500Ks/s	H
7	11449MHz	27500Ks/s	V

Signal Intensity 73%
Signal Quality 76%

OSD 53



Edit TP

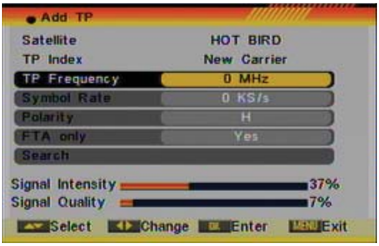
Satellite: HOT BIRD
TP Index: 1/92
TP Frequency: 11131 MHz
Symbol Rate: 5632 KS/s
Polarity: V
FTA only: Yes
Search

Signal Intensity 73%
Signal Quality 76%

OSD 54

rev 1.1

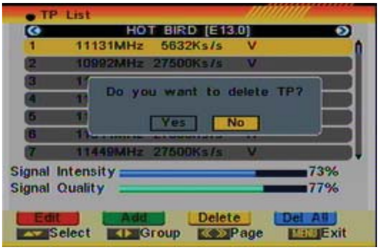
English


Add TP

Satellite HOT BIRD
TP Index New Carrier
TP Frequency 0 MHz
Symbol Rate 0 KS/s
Polarity H
FTA only Yes
Search

Signal Intensity 37%
Signal Quality 7%

OSD 55

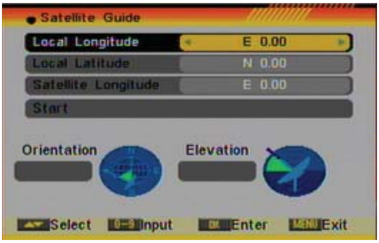

TP List

HOT BIRD [E13.0]
1 11131MHz 5632Ks/s V
2 10992MHz 27500Ks/s V
7 11449MHz 27500Ks/s V

Do you want to delete TP?

Signal Intensity 73%
Signal Quality 77%

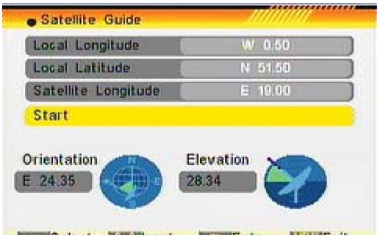
OSD 56


Satellite Guide

Local Longitude E 0.00
Local Latitude N 0.00
Satellite Longitude E 0.00
Start

Orientation
Elevation

OSD 57


Satellite Guide

Local Longitude W 0.50
Local Latitude N 51.50
Satellite Longitude E 19.00
Start

Orientation E 24.35
Elevation 28.34

OSD 58

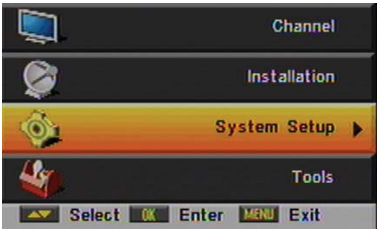
4.7. SATELLITE GUIDE

When you enter “Satellite Guide” menu, you will see the screen like beside (OSD 57).

Here you can enter your local longitude and latitude and the satellite’s longitude. The receiver calculates the antenna’s azimuth and elevation to point your antenna to the selected satellite.

1. Use the [Number] buttons to input the values of “Local Longitude”, “Local Latitude” and “Satellite Longitude”.
2. Press [◄ ►]buttons to select east or west in “Local Longitude” and “Satellite Longitude” or to select north or south in “Local Latitude”.
3. Highlight the “Start” item and press [OK]. In the lower part of the window the corresponding values for the antenna setting are displayed (OSD 58).
4. Orientation means the angle between south and satellite.
5. Press [Exit] to leave this feature

5. SYSTEM SETUP


Channel
Installation
System Setup
Tools
Select
OK
Enter
MENU
Exit

OSD 59

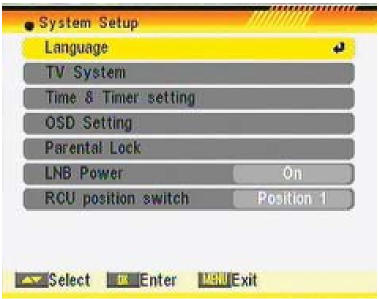
Press [Menu] in the TV mode to enter the main menu (OSD 59).

1. Press [▲▼] to select the System Setup item.
2. Press [OK] to enter the selected item.

In the System Setup menu (OSD 60):

3. Press [▲▼] to select the wanted menu item.
4. Press [OK] to enter the selected item among.

- Language
- TV System
- Time & Timer Setting
- OSD Setting
- Parental Lock
- LNB Power
- RCU Position Switch


System Setup
Language
TV System
Time & Timer setting
OSD Setting
Parental Lock
Select
OK
Enter
MENU
Exit

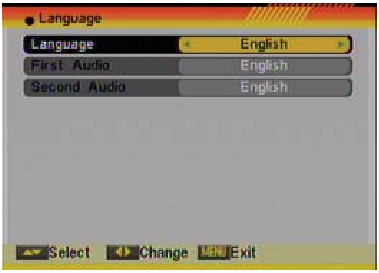
LNB Power On
RCU position switch Position 1

OSD 60

5.1. LANGUAGE

After selecting the “Language” menu you will see a window like beside (OSD 61):

1. Language: press [◀▶] to select languages. The selection of languages include: English, German, French, Italian, Portuguese, Spanish, Turkish, Polish, Hungary and Arabic.
2. First Audio: Some channels offer more than one audio language. This function allows you to set the preferred audio language for those channels using [◀▶]. If a channel offers the same audio language as the “First Audio” you set the system will play this audio language as default. If the channel does not offer this audio language then the system will compare the offered languages with the second audio language. The selections of audio languages include: English, French, German, Russian, Arabic, Portuguese, Turkish, Spanish, Polish and Italian.
3. Second Audio: If the channel has no audio language that corresponds with “First Audio” but with “Second Audio” the system will play the second audio language as default. If no audio language corresponds with the “Second Audio” then the default language of the current channel will be played instead. The selections of audio languages include: English, French, German, Russian, Arabic, Portuguese, Turkish, Spanish, Polish and Italian.
4. Press [Exit] to return back from “Language” menu.

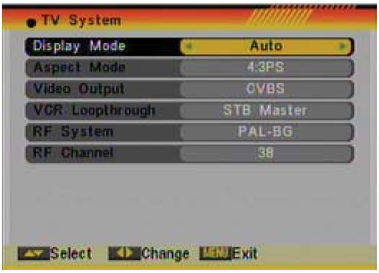

Language
Select
OK
Change
MENU
Exit

Language English
First Audio English
Second Audio English

OSD 61

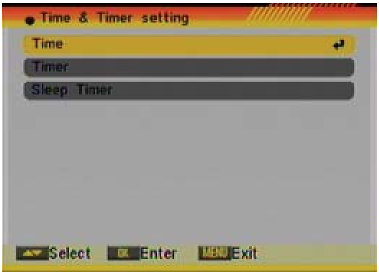
5.2. TV SYSTEM

When you enter the “TV System” menu you will see the screen like below (OSD 62):

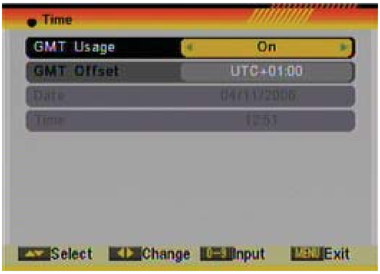

TV System
Select
OK
Change
MENU
Exit

Display Mode Auto
Aspect Mode 4:3PS
Video Output CVBS
VCR Loopthrough STB Master
RF System PAL-BG
RF Channel 38

OSD 62

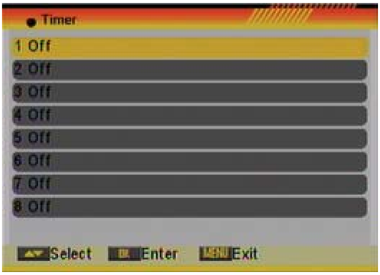


OSD 63



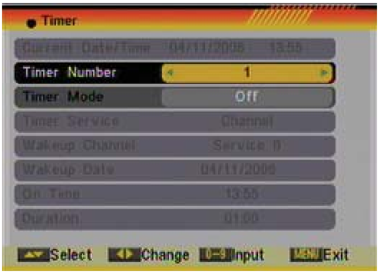
GMT Usage On
GMT Offset UTC+01:00
Date 04/11/2006
Time 12:51

OSD 64



1 Off
2 Off
3 Off
4 Off
5 Off
6 Off
7 Off
8 Off

OSD 65



Current Date/Time 04/11/2006 13:55
Timer Number 1
Timer Mode Off
Timer Service Channel
Wakeup Channel Service 0
Wakeup Date 04/11/2006
On Time 13:55
Duration 01:00

OSD 66

1. Display Mode is used to switch the display mode. You can select from Auto / PAL / PAL-M / NTSC. Press [◄ ►] to select the desired mode.
2. Aspect Mode is used to switch the screen aspect ratio mode. You can select from Auto / 4:3 PS / 4:3 LB / 16:9. Press [◄ ►] to select the needed mode.
3. Video Output is use for switching the screen aspect ratio mode. Now we provide below options: RGB / CVBS. You can press [◄ ►] key to select each mode circularly.
4. VCR Loopthrought: If there is a VCR connected to the receiver and, the receiver is connected to the TV, user can choose what prefer to watch on TV when both equipments are connected at the same time. If the selection is “VCR master”, the VCR will be showed even the receiver is on. If the selection is “STB master”, the receiver will be showed on the TV.
5. Standard Mod.: To choose the modulator output standard. Using [◄ ►] you can chose between: PAL-BG / PAL-I / PAL-DK / NTSC-M.
6. RF Channel: This option allows you to determine the initial channel that the built-in modulator is supposed to occupy. This is important in the case that you wish to connect the receiver to an existing network.
The output range is from channel 21 to 69. Press [◄ ►] to change the value.
7. Press [Exit] to close the “TV System” menu.

5.3. TIME & TIMER SETTING

When you enter “Time & Timer Setting” a menu with three items will be opened (OSD 63). Use [▲▼] to select between the three options and confirm with [OK].

5.3.1. TIME

When you select “Time” and press [OK] then you will see a window like the one beside (OSD 64):
1. GMT Usage: This item is used to set the time by using the time signal from the satellite. Press [◄ ►] to change the setting.
2. The “GMT Offset” item is only available when “GMT Usage” is set to “On”. Press [◄ ►] to set the “GMT Offset” value. With every time you press the button the time offset will be increased / decreased by half an hour.
3. “Date” and “Time” items are only available when the “GMT Usage” is set to “Off”. Press [◄ ►] to select one item and use number buttons to input time and date directly.
NOTE: If the current channel provides the correct time information, you will see the current time after you entered “Time” menu. If the channel doesn’t provide time information,

you have to input the date and time information manually. The most channels support the time signal.

4. Press [Exit] to leave the "Time" menu.

5.3.2. TIMER

Select "Timer" item and press [OK] to enter the "Timer list" menu (OSD 65).

You can press [▲▼] to select a timer. Then press [Enter] to open the related timer menu (OSD 66).

The current time will be displayed in the first column. If the current time is incorrect, please modify it with the [Number] buttons at the "Time" menu.

1. Timer Number: You can press [◄ ►] to set the Timer number. There are totally 8 timers.

2. Timer Mode: Select how often the timer is running: Once, Daily, Weekly, Monthly and Yearly. Or switch the timer off.

3. Timer Service: Select between Channel (timer setting for channel change and Wakeup/Sleep) and Message (reminding message).

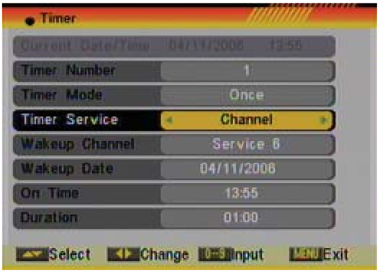
4. When you select "Channel" (timer setting for channel change and Wakeup/Sleep) then you have further options you need to set (OSD 67):

- Wakeup Channel: press [OK] to enter the channel list and select the channel you want to see.
- Wakeup Date: use number buttons to input your wakeup date.
- On Time: use number buttons to input your wakeup time. If date and time are reached then no matter if the system is in standby mode or in playing mode, it will automatically switch to the channel you set and start to play.
- Duration: Here you can set the time you want to see or play this channel. After the time set the system will automatically switch to standby mode. If you don't want the box to be switched to standby mode then set the duration to 00:00.

5. When you select "Message" (reminding message) option in "Timer Service" then you can enter additional data (OSD 68):

- Wakeup Message: press [◄ ►] to select the category of the reminding message from Birthday, Anniversary and General.
- Wakeup Date: Use the [Number] buttons to input your wakeup date.
- On Time: Use the [Number] buttons to input your wakeup time. If date and time are reached, no matter if the system is in standby mode or in playing mode, it will automatically show a reminding message.
- The message will be displayed on the screen until you press [Exit] to close it.

6. Press [Exit] to leave the "Timer" menu.



Timer

Current Date/Time 04/11/2006 13:55

Timer Number 1

Timer Mode Once

Timer Service ◄ Channel ►

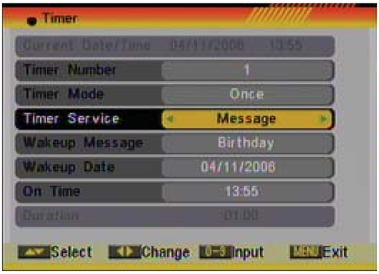
Wakeup Channel Service 6

Wakeup Date 04/11/2006

On Time 13:55

Duration 01:00

OSD 67



Timer

Current Date/Time 04/11/2006 13:55

Timer Number 1

Timer Mode Once

Timer Service ◄ Message ►

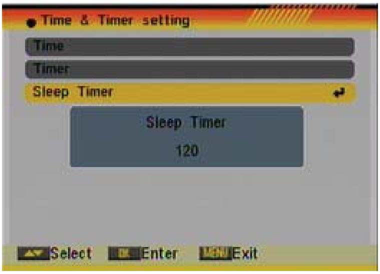
Wakeup Message Birthday

Wakeup Date 04/11/2006

On Time 13:55

Duration 01:00

OSD 68



Time & Timer setting

Time

Timer

Sleep Timer

Sleep Timer

120

OSD 69

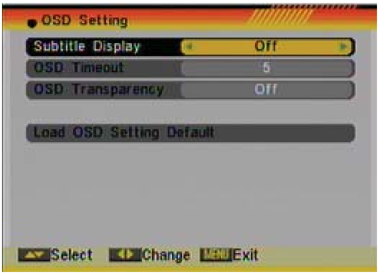
English

5.3.3. SLEEP TIMER

Press [OK] button in this option to set the sleep timer. You will see “SLEEP TIME OFF / SLEEP TIME 10 / SLEEP TIME 30 / SLEEP TIME 60 / SLEEP TIME 90 / SLEEP TIME 120”. (OSD 69)
If you set a sleep time, the system will change to Standby mode after the chosen time period.

5.4. OSD SETTING

When you select “OSD Setting” you will see a screen like beside (OSD 70):
1. Subtitle Display: Press [◄ ►] to select “On” or “Off”. If the current channel has subtitle information, it will be displayed if this function is “On”. If this function is “Off” subtitles won’t be displayed.
2. OSD Timeout: This setting determines the duration the info window is displayed on the screen when you change channels. Press [◄ ►] to set the time between 1 to 10 seconds.
3. OSD Transparency: With this parameter you can set the transparency of the menus. Press [◄ ►] select the value between 10%, 20%, 30%, and 40% and “NO” (means no transparency function).
4. Load OSD Setting Default: If you want to reset your OSD settings to the default settings then select this item and press [OK].
5. Press [Exit] button to leave the “OSD Setting” menu.

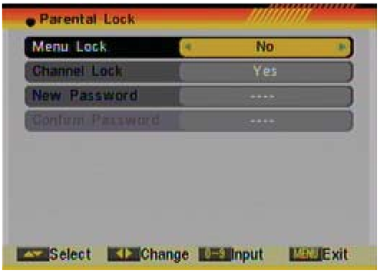


Subtitle Display Off
OSD Timeout 5
OSD Transparency Off

OSD 70

5.5. PARENTAL LOCK

You can set a password for anyone who wishes to operate the “Installation” menu. You can also set the password to lock channels. Below you find how to set and change the password.
1. On “Parental Lock”, press [OK] to open a dialogue box and input the password. After you entered the correct password, you will see a screen like beside (OSD 71):



Menu Lock No
Channel Lock Yes
New Password ----
Confirm Password ----

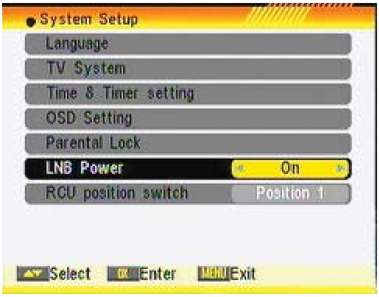
OSD 71

2. Menu Lock: If Menu Lock is set to “Yes” then you need to enter the password every time you want to open then menu. If it is set to “No” then you can open the menu without entering the password first.
3. Channel Lock: If set to “Yes” then you need to enter the password before you can see those channels which have been marked as locked channels in the Channel menu. If it is set to “No” then even those channels can be selected without entering the password first.
4. New Password: Here you can change the existing password. You should do this after you set up the receiver the first time and every time when you think that your password is known by unauthorized persons. To change the password, enter the

new password in the “New Password” item and repeat the same one in the “Confirm Password” item. If the passwords are not identically then you will see a warning message. If you entered the same new password in both fields then you will see the message “Saving Data, Please Wait…”. From now on you need to use the new password to open locked menus or locked channels.

NOTE: The default password is 0000

5. Press [Exit] to leave the “Parental Lock” menu.


System Setup
Language
TV System
Time & Timer setting
OSD Setting
Parental Lock
Select
OK Enter
MENU Exit

LNB Power On

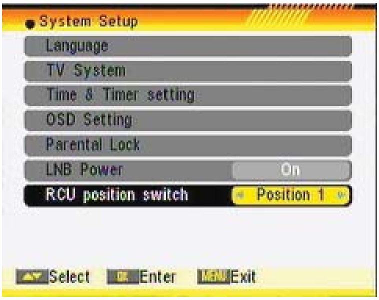
RCU position switch Position 1

OSD 72

5.6. LNB POWER

Here you can set the power output to the LNB (OSD 72). If your receiver is connected to the LNB directly then you need to set the LNB Power to “On”. If your receiver is connected to a multi switch (SMATV signal distribution system) then it may be that you don’t need to provide the power to the LNB. But since this is depending on the kind of installed distribution system we recommend you to contact your installer or to refer to the user manual of this system to get the correct information.

You also just can change this setting and check if you still can receive the channels. If the LNB Power is off and you still can see all channels then we recommend this setting.


System Setup
Language
TV System
Time & Timer setting
OSD Setting
Parental Lock
Select
OK Enter
MENU Exit

LNB Power On

RCU position switch Position 1

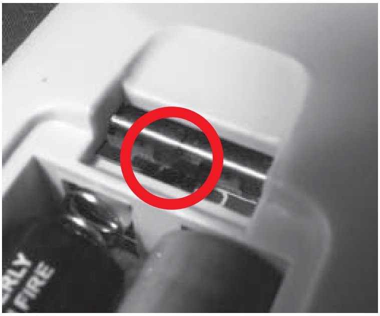
OSD 73

5.7. RCU POSITION SWITCH

In order to avoid interferences between remote controls, you have the possibility to change the code of it, to do that you have to change the position of a switch in the remote control.

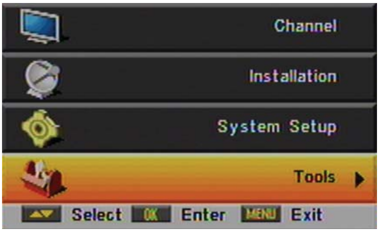
But first of all you have to change this code in the receiver. You can do this in the menu “RCU Position” (OSD 73).

You have to select the same position in the receiver than in the remote control (OSD 74).



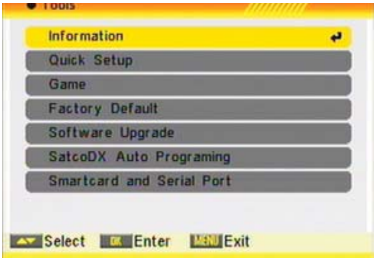
OSD 74

6. TOOLS


Channel
Installation
System Setup
Tools
Select
OK
Enter
MENU
Exit

OSD 75

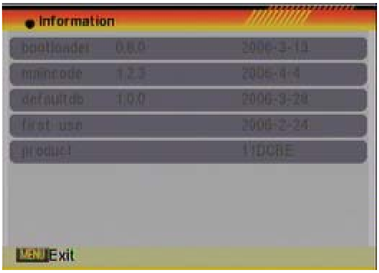
Press [Menu] in the TV mode to enter the main menu (OSD 75).
1. Press [▲▼] to select the Tools item.
2. Press [OK] to enter the selected item.
In the Tools menu (OSD 76):
3. Press [▲▼] to select the wanted menu item.
4. Press [OK] to enter the selected item among.
- Information
- Quick Setup
- Game
- Factory Default
- Software Upgrade
- SatcoDX Auto Programing
- Smart Card and Serial Port


Tools
Information
Quick Setup
Game
Factory Default
Software Upgrade
SatcoDX Auto Programing
Smartcard and Serial Port
Select
OK
Enter
MENU
Exit

OSD 76

6.1. INFORMATION

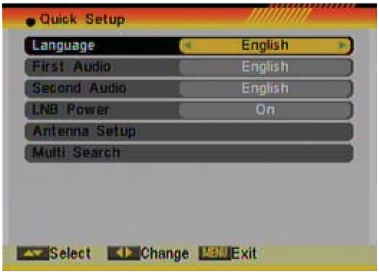
1. When you select the "Information" menu you will see a screen like beside (OSD 77). The screen displays data about the current channel. This function is the same as the function [Info] in the full screen TV mode.
2. Press [Exit] button to leave the information display.


Information
MENU
Exit

OSD 77

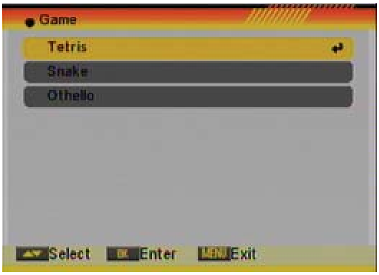
6.2. QUICK SETUP

The receiver includes an installation assistant that will help you to setup the different parameters as you can see at OSD 78.
1. Language: press [◄►] to select the language that will appear on the menus (see point 5.1.)
2. First Audio: Some channels offer more than one audio language. This function allows you to set the preferred audio language for those channels using[◄►]. (See point 5.1.)
3. Second Audio: Some channels offer more than one audio language. This function allows you to set the second audio language for those channels using[◄►]. (See point 5.1.)
4. LNB Power: If your receiver is connected to the LNB directly then you need to set the LNB Power to "On". If your receiver is connected to a multi switch (SMATV signal distribution system) then it may be that you don't need to provide the power to the LNB. (See point 5.6.)
5. Antenna Setup: Selecting this option and pressing [OK], you will access to the Antenna Setup menu (see point 4.1.).
6. Multi search: Selecting this option and pressing [OK], you will access to "Multi search" menu (see point 4.3.).


Quick Setup
Select
Change
MENU
Exit

Language: English
First Audio: English
Second Audio: English
LNB Power: On
Antenna Setup
Multi Search

OSD 78



OSD 79

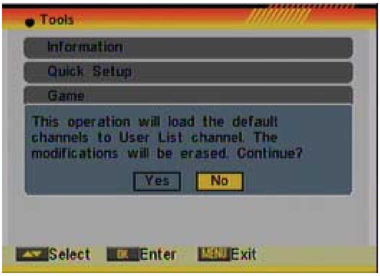
6.3. GAME

When you enter “Game” menu, you will see three Games include Tetris, Snake and Othello (OSD 79).

6.3.1. TETRIS

1. Mark “Setup” and press [◄ ►] to select the level (speed).
2. Mark “Start” and press [OK] to start the game.
3. Mark “Cancel” and press [OK] to leave the game.
4. Play the game:

- Press [◄ ►] to move the block left or right
- Press [▲] to rotate the block clockwise
- Press [▼] to drop the block faster
- Press [OK] to Pause/Play the game
- Press [Exit] to leave the game and return to the Game menu.



This operation will load the default channels to User List channel. The modifications will be erased. Continue?

OSD 80

6.3.2. SNAKE

1. Mark “Setup” and press [◄ ►] to select the level (speed).
2. Mark “Start” and press [OK] to start the game.
3. Mark “Cancel” and press [OK] to leave the game.
4. Play the game:

- Press [◄ ► ▲ ▼] to guide the snake to the red blocks. Every block you ate increases the length of the snake. If the snake runs against a wall or against itself then it dies.
- Press [OK] to Pause/Play the game
- Press [Exit] to quit the game and return to the Game menu.

6.3.3. OTHELLO

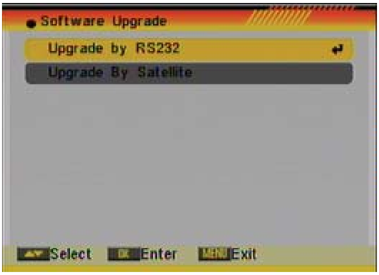
1. Mark “Setup” and press [◄ ►] to select the game level (degree of difficulty).
2. Mark “Start” and press [OK] to start the game.
3. Mark “Cancel” and press [OK] to leave the game.
4. Play the game:

- Press [◄ ► ▲ ▼] to position the round mark.
- Press [OK] to set your stone.
- Press [Exit] to quit the game and return to the Game menu.

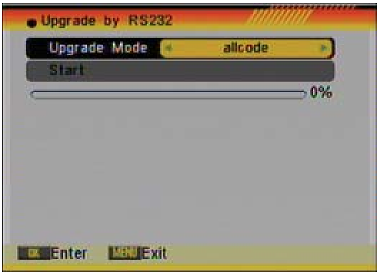
6.4. FACTORY DEFAULT

When you press [OK] on the “Default Value” item:

1. A dialogue box will occur where you need to enter the password.
2. After you input the correct password a warning message will be displayed like the one beside (OSD 80).
3. If you select “Yes” then all changes you made will be reset to default values. Make sure you really want to do this!
4. Press [Exit] in both steps will close the window without resetting the receiver.

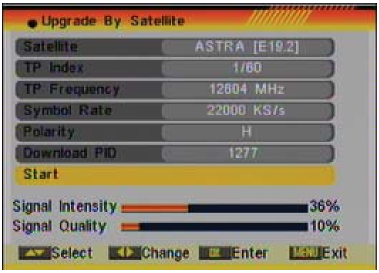


OSD 81



Upgrade Mode: allcode

OSD 82



Satellite: ASTRA [E19.2]
TP Index: 1/60
TP Frequency: 12604 MHz
Symbol Rate: 22000 KS/s
Polarity: H
Download PID: 1277
Signal Intensity: 36%
Signal Quality: 10%

OSD 83

6.5. SOFTWARE UPGRADE

There are two ways of upgrading the software of the receiver as you can see at OSD 81.

6.5.1. RS232 UPGRADE

1. This function allows you to upgrade the software of the receiver. This can be done from PC to receiver or from a master receiver to a slave receiver.
2. Connect master receiver or PC to the slave receiver via serial interface (0-Modem cable). Enter the “Software Upgrade” menu of the master receiver and press [◄ ►] to change the upgrade mode. Upgrade modes include: allcode / maincode / radioback / defaultdb / userdb (OSD 82).
3. Switch on the slave receiver.
4. Mark “Start” on the master reecier and press [OK] to start upgrade. Wait until the display on the front panel shows “END”. Then switch off the receiver and on again. Now the new software is used.
7. Press [Exit] to save the setting without upgrade.

For more information about software upgrade, please visit http://www.universbyfte.com

6.5.2. UPGRADE BY SATELLITE

This function can upgrade the software of your receiver through data sent by a satellite. At the moment we offer satellite updates only through ASTRA1 satellite.

1. Select the satellite and TP or input the TP value and download PID.
2. Then mark “Start” and press [Enter] to begin the download of the upgrade (OSD 83). This may need up to 60 Minutes. Therefore we suggest using of this function only if you don’t intent to watch TV during this time.

At the moment of writing this manual, the data for the software upgrade by Satellite is:

- Satellite: Astra
- TP Frequency: 12604 MHz.
- Symbol Rate: 22000
- Polarity: Horizontal
- Download PID: 1277

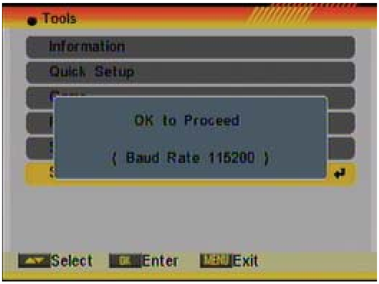
For changes in the data of the satellite please visit http://www.universbyfte.com

6.6. SATCODX AUTO PROGRAMMING

This function is using the tables of the SatcoDX websites to update your channel and satellite lists.

1. Start the SatcoDX application on your PC.
2. Select “SatcoDX Auto Programming” item from the “Tools” menu and press [OK]. The screen will show the message “OK to Proceed” (OSD 84).
3. Press [OK] again and you will see the message “Ready to Download” (OSD 85).
4. In the PC application set the Baud Rate to 115200 and start the download procedure.

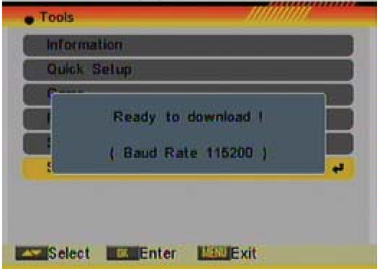
! Caution: The new download channels will delete the original channels list. Please be careful before using it.


Tools
Information
Quick Setup
Select
Enter
Exit

OK to Proceed

(Baud Rate 115200)

OSD 84


Tools
Information
Quick Setup
Select
Enter
Exit

Ready to download !

(Baud Rate 115200)

OSD 85

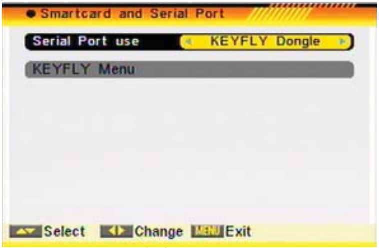
6.7. SMART CARD AND SERIAL PORT

Note: This receiver includes support for dongles. Dongle should be connected to serial port (RS232) of the receiver and it must be fed by an external Power Supply.

In this option, you can access to the information about the conditional access system or the information about serial dongle. For this:

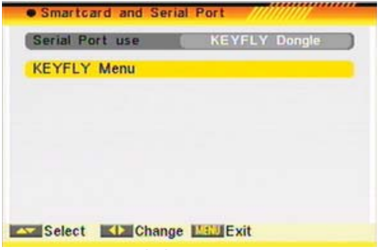
1. At the option “Serial Port use” select “KEYFLY dongle” or “Smartcard” (second option only will be active in receivers with smartcard reader). (OSD 86)
2. Go to “Menu” option and confirm with “OK” (OSD 87). Follow the steps showed on menu in order to access to the card data or to the Dongle information.
3. If there is no card or Dongle (or they are incorrectly inserted), an error alert will be shown on TV.

With a FELEC-CAS card, information about the card will be showed (osd 88).


Smartcard and Serial Port
KEYFLY Menu
Select
Change
Exit

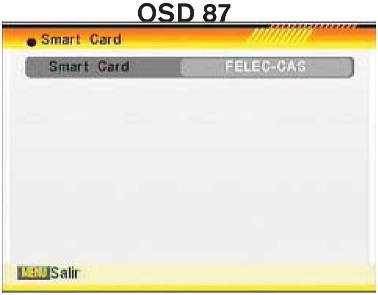
Serial Port use KEYFLY Dongle

OSD 86


Smartcard and Serial Port
KEYFLY Menu
Select
Change
Exit

Serial Port use KEYFLY Dongle

OSD 87


Smart Card
Salir

Smart Card FELEC-CAS

OSD 88

7. TECHNICAL SPECIFICATION

VIDEO	
Decoding	MPEG-2 & MEPG-1 compatible
Bit rate	Max 15Mbps
Output	PAL/NTSC
Aspect ratio	4:3, 16:9, Auto
Active pixel	720x480 @ 30fps; 720x576 @25fps
Output connector	Scart / RCA
AUDIO	
Decoding	MPEG-2/MPEG-1 layer I & II
Mode	Mono, Dual, Stereo, Joint stereo
Bit rate	Max 384Kbps
Output connector	Scart / RCA / SPDIF
RF MODULATOR	
Input	IEC 169-24 Male x 1
Output	IEC 169-24 Female x 1
Band	UHF
TV Standard	PAL BG/I/DK, NTSC M
Output Channel	21~69(PAL), 14~83(NTSC)
DEMODULATOR	
Demodulation	QPSK
Symbol rate	SCPC/MCPC
Outer code	RS (204, 188, 8)
Inner code	ALL DVB rates
Energy dispersion	DVB-S recommendation
INPUT SIGNAL	
Frequency	950MHz ~ 2150MHz
Input level	-65dBm ~ -25dBm
Channel bandwidth	36MHz
Input socked	F-type connector
LNB CONTROL	
Power supply	13/18V (500mA max) with short circuit protection
Polarized control	13/18V polarization (vertical/horizontal)
DiSEqC control	DiSEqC1.0 DiSEqC1.1 and DiSEqC 1.2
MISCELLANEOUS	
Supply voltage	100~240VAC~50~60Hz
Power consumption	Typ. 21 watts / Máx. 30 watts
Operation temperature	+5° to +40°
Storage temperature	-20° to +70°
Dimension (W x D x H)	240x190x45 mm
Weight	1.1Kg
SmartCard	FELEC-CAS

“WE , UNIVERS BY FTE, DECLARE

THAT THE PRODUCTS

U4113

IS IN CONFORMITY WITH FOLLOWING DIRECTIVES

LVD 73/23/EEC

EMC 89/336/EEC

AS LAST AMENDED BY 93/68/EEC”