zapbox twin

2-in-1 Digital Receiver

Ref: 441525

3500 channels Parental lock 2 scarts Wide screen ready DiSEqC 1.0 Sound volume equalizer

SATELLITE + FREEVIEW







CAUTION

Your receiver has ventilation slots. These slots must not be obstructed, even partially, in order to ensure proper ventilation. The lifetime of your device depends on these factors. The device may not be exposed to dripping or splashing and no object filled with liquid, such as vases, must be put on the device. Installation in premises which are confined or subject to temperature or dampness changes (sheds, attics, cellars, tiny rooms, dry risers etc.) may cause an overheating of the device or a premature ageing resulting in failures that are not covered by the guarantee.

Never open the receiver even when it is not connected, because it contains electrical components, which can be dangerous for you. In general, electrical appliances are not earthed, so you can get electrical discharges (which are not risky), while implementing the connections. Our advice is to connect the equipment after all the sockets connections have been made.

To clean the receiver or its remote control, do not use any solvent or detergent. Use only a dry cloth for dust or slightly dampened with water for the front panel. Always carry out this operation after having disconnected the receiver from the mains.

For your own safety:

Never open the device. It contains no item that can be serviced by the user. If you open it, make some changes on circuits or connections of non-compliant equipment it will cancel the guarantee. If necessary, please return the receiver, for service, only to the point of sale.

In order to reduce the risks of fire, electrocution or damage caused to another equipment or someone, do not expose the device to dampness, bad weather, dust, sand, sun, cold or high temperature. You must use the device between 0°C to 40°C; 32°F to 104°F. Place your receiver in a dry place, safe from dust. It is not designed for outdoor use.

The remote control needs two AAA 1.5V batteries. Check the polarity before fitting them into the remote control. Do not throw your used battery in the bin, take them to your local store where special containers are provided to recycle them.

The installation and the use of the receiver are based on pre-programmed channels. In the event of problem on a channel, get a specialised magazine to find out if this channel is still broadcasting in Free To Air. For your information, the operators frequently change the channel's characteristics without notice.

Your receiver is compatible with DiSEqC* 1.0 standard. As a consequence, you can drive up to 4 dishes, each fitted with one single universal head (LNB). It can also handle monoblocs (dual head with integrated switch). Since it is not compatible with DiSEqC* 1.2 standard, you can't drive a motor.

The device doesn't allow to watch a channel while recording another one.

Some channels, even broadcast in free to air (FTA), are reserved for adult audience. To prevent children from viewing these channels, we strongly recommend you to lock them and install a secret code.

^{*} DiSEqC is a trademark registred by Eutelsat.

The first time you switch your AccessBOX on, your are prompted to enter the desired language for On Screen Dislplay. Just press and EXIT to select English. This language selection window is also shown after resetting the unit (factory settings).

Altering the settings of the receiver requires to go through the menus. For an easy reading of this User Guide we have shortened the operations as: MENU / menu / sub-menu. For example, when you read:

· Go to MENU / INSTALLATION / Program Satellites,

You will have to:

- Press on **MENU** key to go to the main menu.
- Press on > key to highlight the **Installation** menu.
- Press on OK to select this menu.
- Press on **v** key to highlight the sub-menu / **Program Satellites**.
- Press OK to select.



You will notice that the words in bold letters in this user manual are those which appear on the screen of your television.





This symbol indicates that the product must not be treated as household waste. The harmfull substances possibly contained in the equipment may have

negative consequences on the environment and / or the human health. At the end of its life, bring any electronic equipment back to your retailer or at the collection point that your city or town puts at your disposal.

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1 - Installation advice

Foreword

Your Zapbox twin terminal allows you to receive satellite digital channels, as well as Freeview (terrestrial) channels. In the case of satellite channels, these can be pre-programmed. Your Zapbox twin receiver therefore includes satellite channels which you can start viewing immediately, if a satellite dish has already been installed. Please be aware that the frequency of terrestrial channels varies from one region to another. You will therefore need to search for these channels.

To make this manual easier to read, the installation procedure has been divided in two parts. First, you will start by installing the receiver and the satellite dish only. The terrestrial installation is carried out in the second part (page 15).

A - Choice of the location and satellite dish assembling

Whatever your choice of installation, your fixing must be stable and vertical.



In the event of an obstacle, respect the rule of distances explained below.



Eg : if the dish is 3 meters above the ground, and a 7m high tree might hide the satellite, the tree must be at least 6m far from the dish (7-3=4, 4x1, 5=6).

For the satellite dish assembly, look at the assembly sheet provided with the satellite dish.



CAUTION: Please handle the satellite dish with caution because its fringes may be sharp.

B - Necessary elements:



- Satellite dish 1
 - Screw and fixing
 - Offset arm
- Universal LNB 4
- 5 Mast or stand off arm
 - Recommended diameter minimum: 40 mm (1,6")
- 6 Satellite receiver
- 7 TV set PAL for digital reception and PAL/ SECAM for analogue (to be able to watch it in colour)
- Scart lead male/male 21 pin 8
- 9 «F» plug
- 10 Cable special for satellite,
 - (regular TV cable may not work)





This scheme doesn't mention terrestrial connections.

C - Assembly and insulation of the «F» plug

- The plug must be screwed on the strip iron aluminium. Take care that there is not a strand of the braid in contact with the central heart of the coaxial cable
- When your installation is finished, do not forget to protect the LNB with appropriate water-proof material. (see picture below).

LNB's badly insulated or not insulated at all are not covered by the guarantee.





D - Mounting of the LNB

• It must be vertically positioned. As shown on figure D2, the cable runs out vertically.



Attention : Never pull off the protection horn of the LNB.



E - Pre-programmed channels and satellites

Your receiver is delivered pre-programmed on the main satellites available in Europe. Some satellites require a one-meter satellite dish, you will not be able to receive them with a lower size satellite dish, even if this satellite appears in your pre-programmed channels list. You will use these channels to point your satellite dish towards the satellite you want. The Table 1 gives you the satellite dish necessary size, in the United Kingdom and the Republic of Ireland, for each satellite, as well as references channel that will be useful for you to align with a satellite.

	If you modify the organisation of the channels, these numbers are not valid any more.							
#	SAT Name	Position	Ø	Channel# *	Channel Name	TP (freq / SR /pol)		
1	Atlantic Bird 3	5°W	80 cm	1483	GCPE1	12543 / 27500 / H		
3	Astra 19	19,2°E	60 cm	1266	TV 5	11568 / 22000 / V		
4	Hot Bird	13°E	80 cm	1033	ZDF	11054 / 27500 / H		
5	Eutelsat W2	16°E	95 cm	1492	Georgian Re.	12608 / 27500 / H		
7	Tuksat 1C	42°E	80 cm	1568	TRT1	11096 / 27500 / V		
8	Astra 28	28,2°E	60 cm	1381	BBC ONE	10773 / 22000 / H		
9	Hispasat 1A	30°W	80 cm	1609	TV GALICIA	11811 / 27500 / V		
10	Arabsat 2A3A	26°E	120 cm	1506	Kuwait	11747 / 27500 / V		
11	Sirius 2	5°E	80 cm	1550	Moscow o. w.	12380 / 27500 / H		
12	Eutelsat W3	7°E	85 cm	1560	M6 Suisse	11283 / 27500 / V		

Tableau 1 : chaînes de référence

(*) The channel numbers apply to the TV list at output of the factory. If you modify the organisation of the channels, these numbers are not valid any more.

Important notes:

 Table 1 does not mention the satellites which do not broadcast (or with a very low signal) on Digital Free to Air. The reference channels were validated at the time of the drafting of this user manual, we cannot guaranty they will still be there. In the event of problem at the time of searching for a satellite, get specialised magazine (like What satellite and Digital TV) to check that the reference channel is still a Free to Air channel.

For the alignment, you must imperatively know which satellite you wish to receive. If you have any doubt, check the pre-programmed channels at the end of this user manual.

F - Language selection

When you first switch on your receiver, you will need to select the language required with the \checkmark keys. Confirm your choice by pressing EXIT. If this option is not available, we strongly advise you to reset the receiver (see page 30). This selection will also be required after a factory reset.

2 - Installation of a fixed dish on a satellite

Read the installation advices, and particulary the paragraph E (page 9).

A - Connections

The receiver must be <u>disconnected</u> from the mains, connect directly the LNB to the LNB input of the receiver. Connect the television to the receiver scart socket output. Switch on the television and connect the receiver to the mains. The green LED lights on. The red LED is ON. Press the power key (\bigcirc) of the remote control, the greenLED lights on. If the television does not display a black screen with a message «BAD OR NO SIGNAL», check the scart leads connections and/or force the A/V or EXT mode of your television (see your TV user manual).

B - Alignment / Satellite dish orientation

Find in Table 1 (page 9) channel number of the reference channel of the satellite that you wish to receive (example: 1381 = BBC ONE for Astra 28°). Type on the remote control the channel number.

Press on the remote control INFO key to show the reception level. This indicator shows normally 0%; the alignment will consist in directing the satellite dish toward the satellite, leading to a maximum level and quality.



Beware, it may be useful to search for the south with

a compass. However, never use a compass to find the supposed location of a satellite. For instance, you may guess that Astra 28° is located 28° left from south. It's false! Just sweep the dish as explained, this method works better.

Put the satellite dish in a vertical position (the graduations on the back show 20-25°) and roughly direct it towards the south. Make a slow sweeping (about 20 seconds) of a quarter of a spin on the left then a quarter of a spin on the right while checking on the television. The indicator should not show anything at this stage.

Incline the satellite dish of 2 degrees (a little less than 1 inch at the top of the dish) towards the top and then start again the sweeping.

Proceed by 2 degrees steps until the indicator goes up and that the channel appears. Tighten all the screws definitively, except those which fixing the LNB in its holder. If the indicator increases, but no images appear on the screen, it means you are on another satellite, it is necessary to continue sweeping.

C - Adjustment of the polarisation

Rotate the LNB clockwise in its holder for a few degrees to further increase the quality of signal. If the signal decreases, rotate it in the opposite direction.

Once you obtain the best signal, tighten definitively all the screws. Your installation is finished. Press on EXIT to hide the information banner. You can now watch all the satellite channels from the satellite you just aligned your satellite dish on.

3 - Installation on several satellites

A - Installation of a bi-head satellite dish Astra / HotBird

This paragraph explains how to install a separated switch or a monobloc (dual LNB with integrated switch)

In both cases, you must first declare the switch input for each satellite, and then align the dish(es)

Swich declaration

- Go in MENU / Installation / LNB Setup.
- On the Satellite line, select Hotbird with > arrows.
- On the **DiSEqC switch** line, select **Tone A** with arrows.
- On the Store line, press OK to save this setting.
- On the Satellite line, select Astra1 with arrows.
- On the **DiSEqC switch** line, select **Tone B** with **4 •** arrows.
- · On the Store line, press OK to save this setting
- Press EXIT to quit the menus.

LNB Setup	
Satellite	Hotbird
DiSEqC Switch	
LNB Power	
Store	

Alignment of the dish

- Install the monobloc on the dish arm as depicted on the figure
- Align the dish on HotBird as explained in the previous paragraph
- Check that you receive channels from both Astra and HotBird
- If not, adjust the alignment to receive perfectly both satellites.
 - Attention, some models of monobloc may have a reverse setting. In that case, you must change the programming of the receiver (Astra on input port 1 and HotBird on input port 2).



If you install 2 or more dishes, or 2 LNB on the same dish, you must connect all the LNB to a switch, featured with one single output, allowing to run one cable between the dish and the receiver. For the installation, align each dish / each LNB just as if it was alone, connecting directly this LNB to the receiver with one cable, without any switch. Once all the dishes are aligned, install the switch and alter the settings of the receiver to properly drive the switch.

Example for 2 dishes on Astra and Hotbird, Astra beeing connected to the input 2 (or B) of the switch, and Hotbird beeing connected to 1 (or A):

Programmation

- Go in MENU / Installation / LNB Setup.
- On the Satellite line, select Hotbird with > arrows.
- On the **Store** line, press OK to save this setting.
- On the **Satellite** line, select Astra1 with arrows.
- · On the Store line, press OK to save this setting
- · Press EXIT to quit the menus.
 - You can now watch channels from both Astra (19) abd Hotbird (see «Day to day operation» page 19).



4 - Connection to an already installed dish

The receiver being disconnected from the mains, connect directly the LNB to the LNB receiver input. Connect a scart lead from the television to the receiver TV output scart socket. Switch on the television, connect the receiver on the power supply, the red LED is ON. Press the power key (0) of the remote control, the green LED lights on. Check in the list of the pre programmed channels at the end of the user manual. You can select and watch the channel of this satellite.

5 - Connection on a dual-head system Astra 19,2° + Hotbird already aligned

Connect the cables and the leads as indicated on the figure below (figure n°4). It is useful to know on which inputs of the switch the heads Astra and Hotbird are connected. If you do not know it and the installation is difficult to reach, test the 2 possible combinations:

Astra on A and HotBird on B or Astra on B and HotBird on A.

To program your receiver, go to page 11, installation of a Bi-head satellite dish Astra $19,2^{\circ}$ + Hot Bird.



Caution: you should not alter the satellite dish adjustments or the switch, it is only necessary to program your digital receiver.



6 - Terrestrial installation

Your terrestrial aerial currently points towards a transmitter broadcasting national channels in analogue mode. The installation process of your Zapbox twin receiver will vary, depending on whether the digital channels are also broadcasted by this transmitter or not. We'll consider three possible scenarios.

If the digital programs are broadcasted by the transmitter through which you already receive your analogue programs, your installation will not require any modification. This is the ideal - and also most common - scenario. However, if some or all of the channels are broadcasted via another transmitter, you will need to install another aerial in order to receive channels associated to that particular transmitter. Two more possibilities exist, depending on whether you know the channel number corresponding to each digital channel or not. If such is the case, your new aerial can be adjusted in a few moments. If (as most viewers) you do not have this information, we have suggested a method for you to follow to try and adjust the aerial before calling a professional. If you have no idea which scenario applies to you, proceed as explained in Scenario 1 (ideal), then follow the steps described in Scenario 3 (adverse), if required.



If a compatible logical number is available for the terrestrial channels, they will be correctly positioned in the channels list (for example, 1 for BBC1). To display all the terrestrial channels found, you can view the list of channels by terrestrial group (LIST key), as you would display the channels broadcasted by a particular satellite (see section 14).



Example of installation :

1 - Ideal scenario

- Got into MENU / Installation / Program Terrestrial
- On the Search Type line, leave Auto
- On the Active Antenna line, leave No
- Go to Start Search and press OK The terrestrial channels search window appears; it lists all the channels found. If no channel is found, proceed to Scenario 2.
- Once the search is finished, press OK. All the channels found are automatically added to the channels list (either at the end or the beginning of the list, depending on their logical number).

2 - Favourable scenario

You know at least one channel number (between 21 and 69) broadcasting in your region.

- Go to MENU / Installation / Program Terrestrial
- On the Search Type line, select Manual with > keys
- On the Active Antenna line, leave No
- On the **Channel** line, select the channel number required with > keys
- You can now adjust the aerial in order to optimize the **Signal Level** and the **Signal Quality**. Once the signal obtained is satisfactory, tighten the screws of the aerial.
- Go to Start Search and press OK

The terrestrial channels search window appears; it lists all the channels found.

- Once the search is finished, press OK. The channels found are automatically added to the channels list (either at the end or the beginning of the list, depending on their logical number).
- Now that your aerial is correctly orientated, you must scan all other channels. To do so, start an automatic search, as explained in Scenario 1.

3 - Adverse scenario

You receive national channels in analogue mode and you have no idea which digital channels are available to you.

Start an automatic search, as detailed in Scenario 1. It may identify some channels.

If you are certain that you can receive additional channels, but don't know the corresponding channel numbers, we suggest you proceed as follows:

Purchase a UHF aerial with a high gain (at least 15 dB) and connect it to the ANT input socket of your Zapbox twin receiver. Orientate your new aerial in the same direction as the existing one and launch an automatic search (see Scenario 1). If it locates channels that were not found by the existing aerial, simply replace the old aerial with the new one. Otherwise, move the aerial slightly, by an eighth of a turn, and start a new automatic search. Continue to rotate the aerial by an eighth of a turn, launching a new automatic search each time. You should be able to pick up a few channels. Switch to one of these channels, then press the **(i)** key twice to display the signal level. Adjust the orientation of the aerial slightly, until you get a satisfactory signal level and quality. Tighten the screws of the aerial securely and launch one more search. Finally, link both aerials through a combiner. You will now be able to receive your analogue and digital channels through the same cable.

7 - Remote control description

1	Digit keys. In normal use, press these keys to enter a TV or radio channel number. In programming mode, use to enter numerical values. Can also be used to rename a channel.
2	ON/OFF. To switch the receiver on/off or to put in standby mode.
3	MENU. To enter or exit the main menu. Also allows you to return to the previous menu.
4	 VOL ▶. In normal use, press to adjust the volume. While in a menu, press to modify various parameters. Also display the next page (▶) or the previous page (◀) in a long list.
5	
6	OK. To display the channels list. In menus, use to confirm a setup modification. Also displays a list of options available when < ▶ keys allow you modify a setting.
7	EXIT. To exit all menus.
8	EPG (Electronic Program Guide). To display information about the current program and also programs scheduled later (if this information is supplied by the broadcaster). Press OK to select the channel or the program you want to watch
9	LANG. When several audio channels are available (for example, Euronews on Hot Bird), allows you to select the language of the program. Press twice to quickly access the volume adjustment setting.
10	Unused key on the Zapbox twin receiver.
11	MUTE. Press once to turn the sound off. Press again to return 21
12	PRE. To return to previous channel - the one you were watching just before the current one.
13	FAV. To access your favourite channels.
14	Page + / Page To quickly browse through a long list.
15	INFO. Displays technical information about the current channel. Press three times to display a description of the current pro- gram (if this information is supplied by the broadcaster).
16	To access subtitles (if available).
17	To quickly access the TV Aspect Ratio menu (4:3 or 16:9 format).
18	To access Teletext (if available).
19	To access the channels list by displaying the list selection by satellite window.
20	To access the channels list by displaying a window which lets you sort/organise channels (by alphabeti- cal order, frequency, etc).
21	To access the channels list while removing all filters and sorting criteria.
22	In the channels list, use to open a channel editing menu (Delete, Rename, Lock, etc).
23	To toggle between TV and Radio mode.
24	Sleep Timer. By pressing this key several times, you can set the receiver to turn off after a specific interval (15 mns steps).



8 - Receiver description

- A Infrared receiver (detects signals from the remote control)
- B CH+ / CH- As on remote control
- c VOL+ / VOL- As on remote control
- D MENU As on remote control
- E OK As on remote control
- F ON/OFF
- **G** Front Panel Display Shows the program channel number when TV is switched on; otherwise shows the current time. 4 dashes are displayed when the receiver is first switched on, or after a power cut.
- H VCR SCART Input/Output When playing a video tape, the video recorder automatically takes over. Can also be used to connect a video transmitter, for example.
- TV SCART Output To connect the receiver to a TV.
- J RS232 Connector For service use only.
- K Mains Power Input
- L Digital Audio Output Only valid for channels broadcasting using Dolby Digital/A3 format (very rare).
- M LNB Input To connect a satellite lead.
- N LOOP Output For serial connection of another digital satellite receiver.
- Analogue Audio Outputs To connect a Hi-Fi system or a video transmitter, for example.
- P Video Output To connect a video transmitter, for example.
- Q Terrestrial Aerial Input
- R TV (or Video Recorder) Output

9 - Day to day operation

In normal use, only the following keys will be required, as described above:

- • to adjust the sound volume.
- • to change channel.
- interpretation K to switch the sound on/off.
- Digit keys for direct access to a channel.
- EPG to display program guide.
- OK to access a TV or radio channel.



When you change channel, a banner displays information about the current channel. Points 4 to 9 are optional (only if this information is supplied by the broadcaster).

- 1 Number and name of the channel
- 2 Satellite
- 3 FAV Group
- 4 Indicates that teletext is available
- 5 Indicates that subtitles are available
- 6 Indicates that several audio channels are available
- 7 Indicates that a description of the current program is available (press () three times to access this information)
- 8 Current time (supplied by broadcaster and not necessarily accurate)
- 9 Description of the current program (with progression bar) and title of next program scheduled
- 10 Signal level
- 11 Indicates that a digital audio channel is available

10 - Accessing a channel

When the original (factory) settings are left unchanged, or after resetting the unit, the \checkmark keys allow you to select channels in the list of pre-programmed TV channels. You can also enter a channel number to access it directly. Press OK to display the TV channels list.

11 - Adding channels

Before adding channels, you must first declare the satellites that you can receive. Once this is done, you can either add a particular channel of which you know the technical parameters (manual search), or you can add all the new channels (automatic search).

A - Declaration of the satellites

The declaration of the satellites is something you must do once and for all. It consists in declaring how many LNB's you have (2 for a monoblock). So, you will affect a number to each received satellite (eg 1 for Hotbird and 2 for Astra).

- 1. Go in MENU / Installation / Program Satellite.
- 2. On the **Number of Antenna** line, select the number with **↓** arrows (for example 2 for a monoblock).
- 3. On the **Current Antenna** line, select **1** with **•** arrows.
- If you receive more than one satellite, go back to step 1 and redo the same steps for the other satellites (for example, 2 = Astra1, ...)

Press EXIT to quit the menus

B - Manual shearch

A channel is transmitted by something called a transponder (TP). It is a satellite relay of which you must know the 4 technical parameters:

- The frequency (eg 12551 MHz)
- The Symbol Rate (eg 22000)
- The polarity (eg Vertical)
- The satellite that carries this TP (eg Hotbird)

You will find these parameters in specialized magazines, or in dedicated websites (www.satcodx.com or www.lyngsat.com for example).

- Go in MENU / Installation / Program
 Satellite
- On the Current Antenna line, select with
 arrows the number that makes the correct satellite appear on the Satellite Name line.
- On the **TP** line, press OK to show the TP list window (Freq, Pol, SR)
- With ∢ ► and ▲ ▼ arrows, select the relevant TP. If the TP is not listed, you must add it as explained in the next section.

· Press OK and check that the signal is correct

Number of Antenna	
Current Antenna	
Satellite Name	
	11590/V/19636
Search Type	
FTA/CAS type	FTA
Search Current ANT	
Search All ANT	
Signal Level	• 63%
Signal Quality	• 73%

- (**Signal Quality** >50%). Should the opposite occur, you will have to check again the technical parameters, or check the DiSEqC settings in the LNB setup menu.
- On the **Search Type** line, select **TP** with **•** arrows.
- On the FTA/CAS type line, select FTA with arrows.
- Go to the **Search Current ANT** line and press OK. The **Search channels** window appears, and the newly found channels are listed and stored.
- Press OK and then EXIT to quit the menus.

C - Automatic channel shearch

- Go in MENU / Installation / Program Satellite.
- On the Current Antenna line, select with < > arrows the number of the first satellite declared (generally, 1).
- On the Search Type line, select All with < > arrows.
- On the FTA/CAS type line, select FTA with
 arrows.
- Go to the Search All ANT line and press OK. The Search channels window appears, and the newly found channels are listed and sotred.
- Installation

 Search Setup
 ILNB Setup

 Number of Antenna
 2

 Current Antenna
 1

 Satellite Name
 Hotbird

 LNB Type
 Hotbird

 TP
 11590/V19636

 Search Type
 All

 FTAICAS type
 FTA

 Search Current ANT
 Search Current ANT

 Search All ANT
 63%

 Signal Level
 63%

 Signal Quality
 74%
- Press OK and then EXIT to quit the menus.

Note: the automatic search scans the channels using the TP list associated with each satellite. If the automatic search doesn't find a channel, though you are sure it exists, it is probably because you need first to update the TP list.

D - Add / Delete / Modify a transponder

To delete a transponder

note : deleting out-of-date transponders speeds up the automatic search

- Press the blue key, a small circle is displayed after each TP.
- With the arrow keys, put the selection bar on the TP you want to delete and press OK. The small circle turns blue. The window on the righthand side of the screen lists the channels carried by the selected TP. If you delete the TP, these

Edit TP O Searched E dit Add O Delete 249 Hotbird 11585/V/27500 tv mw 250 Hotbird 11585/V/27500 tv mw 251 Hotbird 11590/V/19636 ARD *Das 251 Hotbird 11690/V/19636 DW-TV 252 Hotbird 11642/H/27500 DW-TV 253 Hotbird 11642/H/27500 Super RTL 254 Hotbird 11642/H/27500 Super RTL 254 Hotbird 11642/H/27500 Super RTL 254 Hotbird 11642/H/27500 VIVA polsk 255 Hotbird 11641/H/27500 Signal Level	Edit					
O Searched ● Edit ● Add ● Delete 249 Hotbird 11565/V/27500 tv mw 250 Hotbird 11565/V/27500 tv mw 251 Hotbird 11562/V/27500 DW/TV 252 Hotbird 11642/H/27500 DW/TV 253 Hotbird 11642/H/27500 Super RTL 254 Hotbird 11642/H/27500 Super RTL 254 Hotbird 11662/V/27500 VIVA polsk 255 Hotbird 1167/H/27500 Signal Level	Edit TR	þ				and the second
249 Hotbird 11585/V/27500 tv.nrw 250 Hotbird 11590/V/19636 AR0 *Das 251 Hotbird 11604/H/27500 DW-Tv 252 Hotbird 11632/V/27500 RTL 2 CH 253 Hotbird 11632/V/27500 Super RTL 254 Hotbird 11682/V/27500 VIVA polsk 255 Hotbird 11681/H/27500 VIVA polsk 255 Hotbird 11681/H/27500 VIVA polsk 256 Hotbird 11747/H/27500 Signal Level	• Sea		Edit	Add		O Delete
Signal Level – • 07'	249 250 251 252 253 254 255 256	Hotbird Hotbird Hotbird Hotbird Hotbird Hotbird Hotbird Hotbird	11585/V/27 11590/V/19 11604/H/27 11623/V/27 11642/H/27 11662/V/27 11681/H/27 11747/H/27	500 636 500 500 500 500 500 500 500	0	tv.nrw ARD "Das Er DW-TV RTL 2 CH Super RTL C. VIVA polska
Signal Quality – • 06	Signa Signa	l Level I Quality	-• -•			07%

channels will be deleted as well. You can select as many TP's as you want, all of them will be simultaneously deleted.

• Once your selection is over, press EXIT, a confirmation window is shown. Select **Yes** and press OK to confirm deletion.

To add a transponder

- Put first the selection bar on a TP belonging to the same satellite as the one for which you want to add a TP. If you can't find any, press the red key to turn in **All** mode. If you still can't find any, it means that the satellite is not pre-programmed ; you will have to add it as explained in the paragraph called **Adding a satellite**.
- Press the yellow key, the Add window pops up.
- Enter the 5 figures of the frenquency and press -
- Select the polarity with

 arrows and press
 arrows and press
- Enter the 5 figures of the Symbol Rate and press -
- · Press OK on the Store line to save this new TP.

To modify a transponder

- Put first the selection bar on the TP you want to modify.
- Press the green key, the Edit window pops up.
- Enter the 5 figures of the frenquency and press -
- Select the polarity with

 arrows and press
 arrows and press
 arrows and press
- Enter the 5 figures of the Symbol Rate and press -
- Press OK on the Store line to save this new TP.

E - Shearch of a particular channel (PID entry)

In some (rare) cases, a manual or automatic search may not find a channel that does exists however. You must then add this channel by entering the PID's that you will find in specialized magazines or websites :

- Go in MENU / Edit / Edit CH.
- Press the yellow key, the Add channel pops up.
- On the **Satellite** line, select the satellite with arrows.
- On the **TP** line, select with **●** arrows the TP that carries the channel to add. If the TP is not listed, you must add it in the Edit TP menu as explained above in this manual.
- On the **Channel** line, press OK to display the window allowing to edit the channel name.
- To write a letter at the cursor location, press the 0-9 keys as you would do with a cellular mobile phone (for example, press twice the key 3 to write a E). Press the
 - ▶ arrow to edit the next letter, press one of the color keys to insert or delete a letter. Press OK when your edition is over.
- Press OK and check that the signal is correct (Signal Quality >50%). Should the opposite occur, you will have to check again the technical parameters, or check the DiSEqC settings in the LNB setup menu.
- On the Search Type line, select TP with arrows.
- On the FTA/CAS type line, select FTA with arrows.
- Go to the **Search Current ANT** line and press OK. The **Search channels** window appears, and the newly found channels are listed and sotred.
- Press OK and then EXIT to quit the menus.
- On the next 3 lines enter the Video PID, the Audio PID and the PCR PID. The PCR PID is usually equal to Video PID for a TV channel, and equal to Audio PID for a radio channel.
- · Go down to Store line and press OK to save.
- The channel is add at the bottom of the channel list.

F - Add a satellite

If the channel is broadcast by a satellite which is not factory pre-programmed, you need to create the satellite before making any channel addition on this satellite.

- Go in MENU / Edit / Edit SAT.
- Press the yellow key, the Add channel pops up.
- On the Satellite line, press OK to display the window allowing to edit the satellite name.
- To write a letter at the cursor location, press the 0-9 keys as you would do with a cellular mobile phone (for example, press twice the key 3 to write a E). Press the 4 arrow to edit the next letter, press one of the color keys to insert or delete a letter. Press OK when your edition is over.
- In the **Frequency, Polarity** and **Symbolrate** lines, enter the data of a valid TP for the present satellite.
- Go down to Store line and press OK to save.
- · The channel is add at the bottom of the channel list.



• TV	Edit	Add	O Delete
	P		
	E	Add	
	5 Satellite	Hotbird	
1624	CTP	11590/V/1963	6
1625	Channel	MY CHANNEL	
	P Video PID	1001	
	T Audio PID	1000	A DECKER
1628	C PCR PID	1001	
	T Store		
1630	France 2		

12 - Channel management

For the TV channel list, as for the radio channel list, you can move a channel, delete it, rename it or lock it . To be watched A locked channel needs a secret code to be entered.

While viewing channels, press OK to display the channel list, press then on the ? key, the mode selection window will appear.

A - Delete one or more channels

- Select the Delete Channel mode and press OK
- Enter the PIN code (0000 for factory settings)
- a small circle appears after each channel.
- Select with the arrow keys each channel you want to delete and press OK. the small circle turns blue.
- · Once your selection is over, press EXIT, you will be prompted to confirm
- Select **Yes** and press OK, the selected channels will be deleted.

Note: if you want to delete all the channels in one operation, go to MENU / Edit / Delete All Channels



B - Move a channel

- Select the Move Channel mode and press OK
- With the arrow keys, place the selection bar on the channel you want to move and press OK. The channel is shifted a bit on the right.
- With the arrow keys, move the channel to its new position.
- When you have reached the correct position, press OK to drop the channel at its new position.
- While you are in the Move Channel mode, you can select and move other channels.
- · Press EXIT and confirm on Yes when you have finished your organisation.

C - Rename a channel

- Select the Rename Channel mode (on the second page) and press OK
- With the arrow keys, place the selection bar on the channel you want to rename and press OK to display the window allowing to edit the satellite name.
- To write a letter at the cursor location, press the 0-9 keys as you would do with a cellular mobile phone (for example, press twice the key 3 to write a E). Press the
 arrow to edit the next letter, press one of the color keys to insert or delete a letter. Press OK when your edition is over.
- Press EXIT and confirm on Yes when you have finished your organisation.

D - Lock a channel

This menu also allows to lock channels. Please refer to section "Parental Lock" on page 29 to check how to proceed.

13 - Favorite channels management

Among the huge amount of channels you are able to receive, you will probably only watch a few tens of them. If you declare these channels as favorite channels, you will be able to reach them more easily.

You can manage 8 FAV lists. Each channel can be put in one or more FAV lists.

While viewing channels, press OK to display the channel list, press then on the ? key, the mode selection window will appear.

- Select the FAV Selection mode and press OK
- A dot matrix appears on the right side of the screen.
- Each line is related to the channel on the left. Each column is related to a FAV list (FAV 1, FAV2,...FAV8)
- To put a channel on a given FAV list, simply press OK on the intersection. If you tick all the dots of a line, the related channel will be put on all FAV lists.
- · Press EXIT and confirm on Yes when you have finished your organisation.

In order to select the favorite mode, simply press the FAV key, select then the FAV list you want to enable and press OK. From now on, changing channel with - CH - keys will change channels among the chosen list. To come back to normal mode, press the FAV key and select the **All** mode.

TV Edit M	All Odle : FAV Selection	All		O Group None
1621 1622 1623 1624 1625 1626 1627 1628 1629 1630	Programação Euronews TVE INT. CNBC TBN ENLACE Parlamentar. TV5 CCValenciana TV Canaria France 2		 • •<	• •
▲▼ -Nav	rigate ◀►-Change			

14 - Locating a channel in a list

While the channels list is displayed, you can use the coloured keys to sort and organise the channels, based on various criteria:

TV / Radio

Press the red key to select a TV or radio channels list.

When you watch a TV channel or listen to a radio channel, this key automatically toggles to the other mode, without displaying the channels list.

FAV groups

Press the FAV key to display the list of FAV groups, as detailed in section 13 on page 25.

Sorting by satellite

Press the yellow key to display the satellites. For a satellite to be listed, at least one channel must have been saved to memory. A group is dedicated to all terrestrial channels.

Other sorting possibilities

Press the blue key to display channels sorted:

- by satellite (SAT option)
- by transponder (**TP** option)
- by type of operator (Network option)
- by access control (Scrambled option)
- by parental lock (Locked option)
- by alphabetical order (A to Z option)

When a sorting option is active, each group is represented by a +, followed by the group name. To open the group, simply select it and press OK. All the channels included in the group are then displayed, and the + sign changes to -. To close a group, select its name and press OK.

When you activate a grouping option, this affects the way the channels are displayed, until you deselect this option. To do so, select the group named **None** or simply press the ALL CH key.

15 - Miscellaneous settings

A - Language selection

To choose the language to be used for the menus, select MENU / **User Setting** / **Language Settings**. Note: if you select an unknown language by mistake, access the menu situated to the left of the **Common Interface** menu (which only has one sub-menu). On the first line of the **Language Settings** menu, choose the correct language using the **4 •** keys. You can then select the same language for the **Main Audio**, **Main Subtitle** and **Teletext** options. Confirm your selections by pressing EXIT.

B - TV output settings

From MENU / **User Setting** / **TV Output**, you can set the format of the picture displayed on your TV screen.

- On the Aspect Ratio line, select 16:9 if the aspect ratio of your TV is 16:9 (widescreen). If the format is 4:3 (standard), the 4:3 LetterBox and 4:3 Full settings enable you to select how 16:9 images will display on the 4:3 screen. Please note that free to view channels using the 16:9 format are very rare (BBC on Astra 28, mainly). When you select 4:3 Letterbox, the picture is displayed in full, with black strips at the top and bottom of the screen. In 4:3 Full mode, the 16:9 picture fills the whole of the 4:3 screen, but the left and right edges of the picture are cropped. Theses two settings have no impact on 4:3 images.
- On the **Contrast** line, adjust the contrast of the pictures and menus as required (from **0** to **10**).
- On the **Dolby Digital** line, enable the digital audio output, if required. Please note that free channels using this audio format are extremely rare.
- On the Video Output line, select a RGB or CVBS (composite) output for your TV. The composite mode works in all cases, but the RGB mode, handled by most TV sets, produces an image of much higher quality.

C - Clock / Timer

Warning

The time displayed on the receiver (in the menus and on the front panel, in standby mode) is transmitted by the broadcaster. In many instances, it does not match the real time. Furthermore, when in standby mode, it is impossible to guarantee the precision of the circuit updating the time. Therefore, Metronic cannot guarantee the exactness of the time displayed and an incorrect time will not be considered as a malfunction of the receiver.

Time setting

When you install your receiver, you must set up the clock. This will allow the EPG to display correct time and date, and will enable the timer setting.

Watch for a few minutes a channel that broadcasts the time (Euronews, or ZDF, for example)

- Go to MENU / Timer Function / Local Time Setup.
- On the GMT Usage line, leave Yes.
- On the **Time Zone** line, press OK to display the city list and select the city in your timezone.
- On the **Summer Time** line, select **On** in summer and **Off** on winter.
- Press EXIT to save and exit.

Basic timer

To switch the receiver on/off at a specific time, the basic timer is all you need. For example, it allows you to switch the receiver on at the start of your favourite program, or to program a single recording at a later time. If a more complex programming is required, please refer to the next section. To program the basic timer, proceed as follows:

- Put the receiver on the channel you want to record
- Go to MENU / Timer Function / Timer Setup
- On the Turn on time line, enter the time for wake-up
- If you want the receiver to switch off automatically, select **On** on the **Turn Off** line and enter the sleep time on the **Turn off** time line.
- · Press EXIT to save and exit

Advanced timer

The basic timer allows to program simple event : wake up on one channel. The advanced timer allows more complex operations (up to 20 events), especially multiple events on different channels or recurring events.

- Put the receiver on the channel you want to record
- Go to MENU / Timer Function / VCR Timer Setup
- On the **Timer** line, select the number of the timer you want to edit (1 for the first time)
- On the Mode line, select VCR with

 arrows. (you can use Reminder if you just want to be warned when a program starts)
- On the Channel line, check that the channel name is correct. If not, you can change with
 arrows but it's faster to exit, go to the correct channel and come back in this menu.
- On the **Start date** line, press OK to display the calendar and select the date of the program.
- On the Start time line, enter the time for wake-up
- On the same way, select Stop Date and Stop time.
- On the Type line, select if the event happens Once, daily, weekly or monthly.
- Press OK on the Store line to save and exit

VCR Timer Setup	
Timer	
Mode	VCR
Channel	TV5
Start Date	Aug/2/2005
Start Time	
Stop Date	Aug/2/2005
Stop Time	
Туре	
Store	

D - Parental lock

Several channels, although broadcasted free-to-air, show adults only programs, not suitable for a younger audience. We therefore recommend that these channels be locked with a confidential parental code, to prevent viewers who do not know the code from watching these channels. The parental lock can be activated in two stages:

1 - Locking channels

- · Press OK to display the channels list.
- Press the key (?) to access the channels edit menu.
- Select Lock / Unlock and confirm by pressing OK.
- Enter the confidential code (factory preset is 0000).
- · You can view each channel by highlighting its name in the list.
- · Press OK for each channel to be locked. A padlock appears next to it.
- Once you have finished, press the ? key and, with Yes displayed, confirm your selections by pressing OK.
- 2 Locking a menu and channels
- Go to MENU / User Setting / Parental Lock.
- Enter the confidential code (factory preset is 0000).
- On the **Channel Lock** line, make sure that **Yes** is displayed. This is the factory preset by default; therefore, you should not need to change it.
- · Move to the Change PIN line and press OK.
- Enter the current 4 digit confidential code (factory preset is 0000).
- Enter the 4 digits of the new PIN code.
- Confirm the new confidential PIN code by entering its 4 digits one more time.
- · Exit this option by pressing EXIT.



Important: Keep the new PIN code in a safe place. Do not forget it, as otherwise you will need to send the receiver back to our Service Department, for the PIN to be reset.

E - Digital audio output

Some channels may broadcast Dolby Digital audio (AC3). In order to take advantage of this technique, you must connect your receiver to your audio amplifier thanks to a coaxial cable.

- Go to MENU / User Setting / TV Output.
- On the Dolby Digital line, select On with arrows .
- · Press EXIT to save and exit.
- Put the receiver on a channel that broadcasts AC3 (eg Pro Sieben on Astra 19).
- Press the 🐼 key, the audio menu appears on the top left of the screen.
- With arrows, select the line AC3.
- Press OK to confirm. The analog audio outputs on RCA or scart are then muted. The sound volume must now be adjusted with your amplifier.

16 - Resetting the receiver

This procedure allows to recover the factory settings, as well as the factory channel list. To reset the unit, proceed as follows :

- · Put the receiver on the channel you want to record
- · Go to MENU / System Information / Factory Reset
- On the **Reset** line, select **No** with • arrows
- Go on the **Start** line and press OK.

The receiver will come to its original settings, you are promted to select language, as for the first installation.

17 - Using the receiver with a VCR

Simply connect your VCR to the VCR SCART on the receiver.

To record a digital channel, the receiver must be switched on the channel you wish to record. Start the recording on the AV channel of the VCR (0, AV, EXT,...). Refer to your VCR's User Guide to check how to proceed.

To view a video recording, simply start playing the tape. The VCR should take over the receiver. Should this not happen, press the TV/VCR key on the remote control of your VCR.

Note: These instructions also apply to DVD recorders.

18 - Adjusting the volume

The volume may vary from one channel to another. It may therefore be necessary to rectify the volume level difference.

- Press twice on <a>3. The Volume Offset menu appears in the top left corner of the screen.
- Use the vol 4 and vol > keys to adjust the volume level, to match other channels.
- Press OK to confirm your selection.

19 - Troubleshooting

• The screen displays "NO SIGNAL"

Two possible causes:

- 1 The program (channel) that you are trying to watch is no longer available via the transponder. Buy a specialised magazine to check if the channel settings have changed or if the channel has disappeared.
- 2 You are on another satellite broadcasting channels on the same frequency as the one you are trying to watch.

The screen remains black on one or more channels

The channel you are trying to watch is probably scrambled. Please note that an operator can broadcast a scrambled channel with information that leads the receiver to believe that the channel is free to view. The opposite scenario is also possible, for example with Canal + programs which are not scrambled at specific times of the day.



Tip: The channel can be free to view at specific times of the day.

• The receiver requests a PIN code when you try to watch a channel

If you have not set up a confidential PIN code, enter "0000". If you have installed a confidential PIN code but can't remember it, the receiver will need to be reset. Please contact our Hotline for help.

• The receiver does not seem to be working properly or is locked

Proceed as follows, in the specified order:

- 1 Switch the terminal off, then switch it back again.
- 2 Disconnect the receiver from the mains power supply.
- 3 Reset all factory settings (see section 16 on page 30).

• The volume level varies from one channel to another

Adjust the volume level as required.

Glossary

- Analogue Method of terrestrial television broadcast signal delivery used since the middle of the 20th century. The switch-over to digital television means that analogue television is expected to disappear in the next few years.
- **Channel number** Number allocated to a frequency band. In the case of the UHF band, the channels are numbered from 21 to 69.
 - **Transmitter** Pylon fitted with a large number of aerials, which retransmits a wide range of channels (digital or analogue). Your aerial must point towards this transmitter. Please note that a transmitter may not relay all the channels available.
 - **EPG** EPG: Acronym of Electronic Program Guide.
- **Free-to-air (FTA)** Non-subscription and unscrambled television channels. Your Zapbox twin terminal is designed to receive all unscrambled terrestrial digital and satellite channels, and exclusively those channels.
 - MultiplexGroup of terrestrial channels broadcasted onto a single frequency, i.e.broadcaston the same UHF channel number. This is equivalent to a transponder in
satellite television broadcasting.
 - **Digital** Type of broadcast signal used in modern transmissions. It uses up less space than analogue broadcasting in the spectrum. Digital television can carry more channels in the same amount of bandwidth than analogue television ever could. Cable and satellite TV has already been using digital channels for a few years. They will eventually replace analogue channels in terrestrial transmission. Please note that some channels (for ex., BBC1) can be broadcasted in both analogue and digital format.
 - **PID** Number which helps identify specific data (audio, video, clock) in a digital data flow.
 - **Polarization** Orientation of the wave sent by the transmitter. Most UHF transmissions use horizontal polarization, which means that the elements of your aerial need to horizontal.
 - **Terrestrial** In this context, refers to the transmission of programs over-the-air (OTA), as opposed to via «cable» or «satellite».
 - **DTT** Acronym of Digital Terrestrial Television, i.e. Freeview, for FTA inUK.

ASSISTANCE AND ADVICE

You will find in the following pages, the channel parameters which we programmed in the receiver. This programming was established according to information's, which are at our disposal to date, and according to programs which are broadcast to date. The operators responsible for the television broadcasts by satellites sometimes change without notice the frequencies and the transponders, we cannot unfortunately guarantee you the exactitude of these programming in time, please accept our apologies on this matter. You will be able to update these parameters if you follow the instructions on page 29. In spite of the care that we brought to the design of our products and the realization of this user manual, you may have encountered problems.

Please do not hesitate to contact us, our specialists are at your disposal to advise you:



hotline@metronic.com

IMPORTANT : in the object of your message, make sure the word METRONIC appears.

• Hardware ref.: Zapbox Twin

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CERTIFICATE OF GUARANTEE
The Zapbox Twin receiver is guaranteed one year parts and labour. In the event of a breakdown, the transport charges outward are the customer responsibility, the costs carriage back is our responsibility. To be valid, the certificate of guarantee must be dully filled and send back with the invoice photocopy or the sales slip.
Hardware ref.: Zapbox Twin
Date of purchase: Serial number :
METRONIC - Node Park Touraine - BP 1 - Tauxigny - 37310 REIGNAC CEDEX, FRANCE Fax : 02 47 346 347 • www.metronic.com Product made in Asia.

#	NAME	SR- Freq - Pol
Hot	bird	
100	1 RAI1	11766 V 27500
100	2 RAI2	11766 V 27500
100	3 RAI3	11766 V 27500
100	4 Retequattro	11919 V 27500
100	15 Canale 5	11919 V 27500
100	10 Italia I 17 RaiMed	11766 V 27500
100	8 Rai Edu1	11804 V 27500
100	9 RaiEdu2	11766 V 27500
101	0 4fun.TV	10719 V 27500
101	1 MTA INTL	10723 H 29900
101	2 Meteo Express	10911 V 27500 10949 V 27500
101	4 Tele Lumiere	10949 \/ 27500
101	5 ANB	10949 V 27500
101	6 Vectone Urdu	10949 V 27500
101	7 Vectone Bangla	10949 V 27500
101	8 Al Mustakillah	10949 V 27500
101	9 Vectone Iamii	10949 V 27500
102	P1 Prime TV	10949 V 27500
102	2 TRT INT	10957 H 04340
102	3 God TV	11034 V 27500
102	4 Beur TV	11034 V 27500
102	5 CCTV9	11034 V 27500
102	6 RIR	11034 V 27500
102		11034 V 27500 11034 V 27500
102	9 RTL Television	11054 H 27500
103	0 VOX CH	11054 H 27500
103	1 RTL CH	11054 H 27500
103	2 NBC	11054 H 27500
103	3 ZDF	11054 H 27500
103		11060 V 06510 11060 V 06510
103	6 Kurdsat	11096 H 27500
103	7 Tele A	11096 H 27500
103	8 TV 5 - FBS	11137 H 27500
103	9 TV 5 Europe	11137 H 27500
104	0 Roma Uno	11137 H 27500
104	2 Videolook	11137 H 27500 11137 H 27500
104	-3 Kurdistan TV	11137 H 27500
104	4 TBNE	11137 H 27500
104	5 Videolina	11137 H 27500
104	6 Telegenova	11137 H 27500
104	7 RTB	11137 H 27500
104	 Stariviarket DW-TV Amerika 	11137 H 27500 11143 V 05500
104	0 Napoli Nova	11179 H 27500
105	51 Spectrum	11179 H 27500
105	2 ELITE SHOPPING	11200 V 27500
105	3 Sailing Channel	11200 V 27500
105	4 NOELLO SAT	11200 V 27500
105	D IVIII 6 SuperPippo	11200 V 27500
100	7 ODEON SAT	11200 V 27500
105	8 TAXI channel	11200 V 27500
105	9 TLC SAT	11200 V 27500
106	0 STARSAT	11200 V 27500
106	1 NOELLO SILVER	11200 V 27500
106	2 NOELLO GOLD	11200 V 27500
100	J FLATIVIIALIA	11200 V 2/300

# I	NAME	SR- Freq - Pol
1064	PEOPLE TV-RETE7	11200 V 27500
1065	ROMA SAT	11200 V 27500
1066	AL HAYAT	11200 V 27500
1067	Punto Sat	11262 H 27500
1068	Olisat VV Cont	11304 H 27500
1069	Olisat TV CHILE	11304 H 27500
1070	Olisat TV Colombia	11304 H 27500 11304 H 27500
1071	Olisat Cubavision	11304 H 27500
1073	DEFENCE TV	11304 H 27500
1074	MediterranSat2	11304 H 27500
1075	MANGO 24	11408 V 27500
1076	Polsat 1	11413 H 06200
1077		11513 H 27500
1079	Tele5	11513 H 27500
1080	Polonia 1	11513 H 27500
1081	ITV	11513 H 27500
1082	DAYSIAR	11585 V 27500
1083		11585 V 27500
1085	MAHARISHI	11585 V 27500
1086	BET NAHRAIN	11585 V 27500
1087	PENTV	11585 V 27500
1088		11585 V 27500
1009		11585 V 27500
1091	JAAM E JAM	11585 V 27500
1092	IPN	11585 V 27500
1093	IRAN	11585 V 27500
1094	EWIN	11585 V 27500
1095		11585 V 27500
1097	ICC	11585 V 27500
1098	tv.nrw	11604 H 27500
1099	ARD "Das Erste"	11604 H 27500
1100		11604 H 27500 11604 H 27500
1102	Super RTL CH	11604 H 27500
1103	VIVA polska	11604 H 27500
1104	Chai TV	11623 V 27500
1105	CartomanziaLOTTO	11623 V 27500
1100	CANAL CLUB	11623 V 27500 11623 V 27500
1108	ITALIA CLUB	11623 V 27500
1109	TV ROMANIA	11623 V 27500
1110	Telegenova	11623 V 27500
1111	123LIVESAI/69XIV	11623 V 27500
1112	Ultra Blue TV	11623 V 27500
1114	Bloomberg Europ TV	11642 H 27500
1115	Bloomberg German TV	11642 H 27500
1116	Bloomberg Engl TV	11642 H 27500
1117		11642 H 27500 11747 H 27500
1119	EDTV SPORTS	11747 H 27500
1120	EDTV_BUSINESS	11747 H 27500
1121	PMC	11747 H 27500
1122	SHARQIYA	11747 H 27500
1123	INFINITY	11747 H 27500 11747 H 27500
1125	EDTV RADIO 2	11747 H 27500
1126	Senato	11766 V 27500
1127	TVE INTERNACIONAL	11785 H 27500
1128	CANAL 24 HORAS	11785 H 27500

7 F	NAME	SR- Freq - Pol
1129	TVF INTER ASIA	11785 H 27500
1130	RaiNotizie24	11804 V 27500
1131	Camera Deputati	11804 V 27500
1132	RaiUtile	11804 V 27500
1133	RaiSportSat	11804 V 27500
1134	RaiNettunoSat2	11804 V 27500
1135	RaiNettunoSat1	11804 V 27500
1136	SAT2000	11804 V 27500
1137	RaiDoc	11804 V 27500
1138	Zona Giochi	11843 V 27500
1139	SKY ASSIST	11843 V 27500
1140	Sky Assisi	11043 V 27300
1141		12015 H 27500
1142		12015 H 27500
1144	Telesierra	12092 H 27500
1145	Italiasat	12092 H 27500
1146	Erotic TV	12092 H 27500
1147	HB CHANNEL	12111 V 27500
1148	ARM 1	12111 V 27500
1149	Made In Italy	12111 V 27500
1150	Ceramicanda	12111 V 27500
151	AL JAZEERA	12111 V 27500
1152		12111 V 27500
1153	UNUSAI	12111 V 2/500
154	Coming Soon TV MediterraneeSet1	12111 V 27500
155	GAV TV	12111 V 27500
157	DunaTV	12111 V 27500
158	TV7 Tunis	12149 V 27500
159	Khabar TV	12149 V 27500
160	LIDER TV AZE	12149 V 27500
161	TizianaSat	12149 V 27500
162	Canal Algerie	12149 V 27500
163	A3	12149 V 27500
164	CCTV4	12169 H 27500
165	TV PIREAS	12188 V 27500
166	RISSAL	12188 V 27500
107		12188 V 27500
160	EATRA 3 CHANNEL	12100 V 27500
170	HOLIDAYS IN GRICHAN	12188 V 27500
171	TELEASTY	12188 V 27500
172	Music Box Italia	12207 H 27500
173	INDIAVISION	12207 H 27500
174	CNL	12207 H 27500
175	BK TV	12207 H 27500
176	Thai Global Network	12207 H 27500
177	TCT	12207 H 27500
178	Arirang TV	12207 H 27500
179	FASHION	12245 H 27500
180		12245 H 27500
101	SEXY SAI	12245 H 27500
102		12205 V 2/500
187	SUZ BVNLTV	12204 1 21300
185		12303 V 27300
186	MAGIC	12303 \/ 27500
187	COUNTDOWN	12303 V 27500
188	PLEASURE TV	12303 V 27500
189	NAPOLI MUSIC	12303 V 27500
190	BLU LINE TV	12303 V 27500
191	DANCE TV	12303 V 27500
192	ITALIAN MUSIC	12303 V 27500
193	SAT8	12303 V 27500

#	NAME	SR- Freq - Pol
1194 1195	OASI.TV TV Puls	12303 V 27500 12322 H 27500
1196	PilotTV	12360 H 27500
1197	Syria Satellite Chan	12380 V 27500
1198	SAT 7	12380 V 27500
1199	Abu Dhabi TV	12380 V 27500
1200	Telepace	12380 V 27500
1202	Jordan TV	12380 V 27500
1203	IRIB1 PER	12437 H 27500
1204	IRIB1 ENG	12437 H 27500
1205	IRIB2 PER IRIB2 ENG	12437 H 27500 12437 H 27500
1200	IRINN	12437 H 27500
1208	SAHAR1	12437 H 27500
1209	SAHAR2	12437 H 27500
1210		12437 H 27500
1211	Xstream	12437 H 27500 12476 H 27500
1213	metv	12476 H 27500
1214	2M Maroc	12476 H 27500
1215	SET	12520 V 27500
1216		12520 V 27500
1217	OpenSky FN	12520 V 27500 12539 H 27500
1219	Bulgaria TV	12539 H 27500
1220	Nile TV Interna	12539 H 27500
1221	Nile News	12539 H 27500
1222	MEDIOLANUM Sports test	12539 H 27500 12530 H 27500
1224	24ore.tv	12558 V 27500
1225	TELE PADRE PIO	12558 V 27500
1226	GOD TV	12577 H 27500
1227	F Men Hono Channol	12577 H 27500
1220	Hope Channel 2	12577 H 27500
1230	Liberty TV	12577 H 27500
1231	Al Arabiya	12597 V 27500
1232		12597 V 27500
1233	CH TRUS-ORTI FuroNews	12597 V 27500 12597 V 27500
1235	SKY Prima Fila	12616 H 27500
1236	Sharjah	12654 H 27500
1237	Qatar	12654 H 27500
1238	Saudi 1 Kuwait	12654 H 27500 12654 H 27500
1240	Libya	12654 H 27500
1241	Sudan	12654 H 27500
1242	Oman	12654 H 27500
1243	ESC Al manar	12654 H 27500
1244	3ABN	12673 V 27500
1246	Tv Moda	12673 V 27500
1247	Studio Europa	12673 V 27500
1248	Emi.Li TV	12673 V 27500
1249	Telemarket	12673 V 27500 12673 V 27500
1251	GAME NETWORK	12673 V 27500
1252	E-TV Tech C.	12673 V 27500
1253	PASSIONS	12692 H 27500
1254		12692 H 27500
1255	DAN MUSIC	12692 H 27500
1257	HSE	12713 V 27500

# N	JAME	SR- Freq	- Pol
Astra	19		
# Astra 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1270 1271 1272 1273 1274 1275 1276 1277 1278 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1282 1283 1284 1285 1286 1287 1288 1282 1282 1282 1283 1284 1282 1284 1282 1284 1282 1291 1291 1292	JAME 19 Bibel TV TV TRWAM Tango TV RAZE TV Ocko TV E-Games TV TV CANARIA CANAL ALGERIE TV 5 ESC1 - EGYPT RAI 1 RTPI TV7 ARTE AI Jazeera 2M Maroc TVEi RTM MAROC DW-TV CNBC Europe Sky News TVC INT. ANDALUCÍA TV EUSKADI TV TM SAT/LAOTRA TV GALICIA PREMIERE DIREKT MTV Central CNN Int. EURONEWS Das Erste Bayerisches FS hessen fernsehen arte SR Fernsehen Südwest	SR- Freq 10832 H 10832 H 11568 V 11568 V 11577 V 11597 V 11686 V 11886 H 11739 V 11836 H 11836 H 11836 H 11836 H 11836 H 11836 H	- Pol 22000 27500
1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320	WDR Köln BR-alpha SÜDWEST BW Phoenix KTO ZDF 3sat KiKa Eurosport ZDFinfokanal ZDFdokukanal EuroNews ZDFtheaterkanal ProSieben Austria Kabel 1 Schweiz Kabel 1 Austria SAT.1 A EinsExtra EinsFestival EinsMuXx MDR FERNSEHEN rbb Brandenburg ARD-MHP-TEST-6 NDR FS MV MDR SACHSEN MDR THÜRINGEN SÜDWEST RP	11836 H 11836 H 11836 H 11836 H 11836 H 11836 H 11954 H 11954 H 11954 H 11954 H 11954 H 11954 H 11954 H 11954 H 12051 V 12051 V 1210 H 12110 H 12110 H 12110 H 12110 H 12110 H	27500 27500

#	NAME	SR- Freq - Pol	
# 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1334 1335 1336 1337 1338 1339 1341 1342 1343 1344 1345 1351 1354 1355 1356 1357 1358 1357 1358 1357 1358 1357 1358 1367 1378 1377 1378 1367 1377 1377 1377 1377 1377 1377 1377 1376 1377 1377 1377 1376 1377 1	NAMESAT.1-CHlastminute.tvRNFplusTV TRAVEL SHOPTV.BERLINRTLRTLSuper RTLVOXRTL ShopFRANCE 5LCPMTV2 Pop ChannelRTL AustriaVOX AustriaRTL2 AustriaSuper RTL ABTVZIK/XXLBBC WORLDFASHION-TVTERRA NOVACANAL CLUBBEUR TVWDR AachenARD MHP-TestVIC-TV.NET DE2hollywood cinemaSonnenklar TVHSE24SAT.1N24TELE 5AstroTVNEUN LIVEProSiebenKABEL1DSFQVC DeutschlandVIVA PLUSBloomberg TV GermanyChamber TVBVNRTBF SATLiberty TV.comCNBC EuropeTV5 EuropeM6 BoutiqueLibertyTV.comTV6Bahn TVK-TVXXPrhein main tvK1010Spielekanal TV-tv	SR- Freq - Pol 12148 H 27500 12148 H 27500 12148 H 27500 12148 H 27500 12188 H 27500 12188 H 27500 12188 H 27500 12188 H 27500 12207 V 27500 12207 V 27500 12207 V 27500 12226 H 27500 12226 H 27500 12226 H 27500 12226 H 27500 12285 V 27500 12480	
1377	n-tv	12670 V 22000	
1378	VIVA	12670 V 22000	
1379	TW1	12692 H 22000	
1380	GOTV	12692 H 22000	
Astra28			
1381	BBC 1 London	10773 H 22000	
1382	BBC 2 England	10773 H 22000	

1383 BBC NEWS 24 10773 H 22000 1384 BBC TES 3 10773 H 22000 1385 CBBC Channel 10773 H 22000 1386 CBeebies 10773 H 22000 1387 BBC PARL'MNT 10847 V 22000 1389 Performance 11390 H 27500 1390 channel U 11390 H 27500 1391 Deal of the Day 11390 H 27500 1392 Soundtrack ch. 11390 H 27500 1393 ACTV 11390 H 27500 1394 Chat Box 11390 H 27500 1395 Golf Channel 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1398 Game In TV 11390 H 27500 1398 Game In TV 11390 H 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1404 Simply Home 11488 V 27500 1405 <td< th=""><th># N</th><th>IAME</th><th>SR- Freq - Pol</th></td<>	# N	IAME	SR- Freq - Pol
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1385 CBBC Channel 10773 H 22000 1386 CBeebies 10773 H 22000 1387 BBC PARL'MNT 10847 V 22000 1389 Performance 11390 H 27500 1390 channel U 11390 H 27500 1391 Deal of the Day 11390 H 27500 1392 Soundtrack ch. 11390 H 27500 1394 Chat Box 11390 H 27500 1395 Golf Channel 11390 H 27500 1396 Ex&Mart TV 11390 H 27500 1397 TVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11488 V 27500 1404 Simply Home 11488 V 27500 1404 Simply Ideas 11488 V 27500 1404 Simply Ideas 11488 V 27500 1404 SapDateTV 11488 V 27500 1414	1384	BBC TES 3	10773 H 22000
1386 CBeebies 10773 H 22000 1387 BBC PARL'MNT 10847 V 22000 1388 SAB TV 11390 H 27500 1390 channel U 11390 H 27500 1391 Deal of the Day 11390 H 27500 1392 Soundtrack ch. 11390 H 27500 1393 ACTV 11390 H 27500 1394 Chat Box 11390 H 27500 1395 Golf Channel 11390 H 27500 1396 Ex&Mart TV 11390 H 27500 1397 TVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1403 Simply Ideas 11488 V 27500 1404 Simply Ideas 11488 V 27500 1405 Simply Shop. 11488 V 27500 1406 Simply Shop. 11488 V 27500 1414 <t< td=""><td>1385</td><td>CBBC Channel</td><td>10773 H 22000</td></t<>	1385	CBBC Channel	10773 H 22000
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1389 Performance 11390 H 27500 1390 channel U 11390 H 27500 1392 Soundtrack ch. 11390 H 27500 1394 Chat Box 11390 H 27500 1395 Golf Channel 11390 H 27500 1396 Ex&Mart TV 11390 H 27500 1397 TVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1403 POP Plus 11488 V 27500 1404 Simply Ideas 11488 V 27500 1404 Simply Shop. 11488 V 27500 1405 Simply Shop. 11488 V 27500 1406 Simply Shop. 11488 V 27500 1411 52536	1388	SAB TV	11390 H 27500
1391 Deal of the Day 11390 H 27500 1392 Soundtrack ch. 11390 H 27500 1393 ACTV 11390 H 27500 1394 Chat Box 11390 H 27500 1395 Golf Channel 11390 H 27500 1396 Ex&Mart TV 11390 H 27500 1397 TVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1404 Simply Home 11488 V 27500 1405 Simply Home 11488 V 27500 1406 Simply Shop. 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1409 Classic FM TV 11488 V 27500 1410 nation217 11488 V 27500 1411 52536 11488 V 27500 1412 Thomas Cook 11527 V 27500 1414 Entertainment	1389	Performance	11390 H 27500
1392 Soundtrack ch. 11390 H 27500 1393 ACTV 11390 H 27500 1394 Chat Box 11390 H 27500 1395 Golf Channel 11390 H 27500 1396 Ex&Mart TV 11390 H 27500 1397 TVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1403 POP Plus 11426 V 27500 1404 Simply Home 11488 V 27500 1405 Simply Ideas 11488 V 27500 1406 Simply Ideas 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1410 natioo217 11488 V 27500 1411 52536 11488 V 27500 1412 Thomas Cook 11527 V 27500 1413 OBE 11527 V 27500 1414 Entertainment 11527 V 275	1390	Deal of the Day	11390 H 27500 11390 H 27500
1393 ACTV 11390 H 27500 1394 Chat Box 11390 H 27500 1395 Golf Channel 11390 H 27500 1396 Ex&Mart TV 11390 H 27500 1397 TVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1403 POP Plus 11426 V 27500 1404 Simply Home 11488 V 27500 1405 Simply Ideas 11488 V 27500 1406 Simply Shop. 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1409 Classic FM TV 11488 V 27500 1411 5236 11488 V 27500 1412 Thomas Cook 11527 V 27500 1413 OBE 11527 V 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11546 H 27500	1392	Soundtrack ch	11390 H 27500
1394 Chat Box 11390 H 27500 1395 Golf Channel 11390 H 27500 1396 Ex&Mart TV 11390 H 27500 1397 TVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1403 POP Plus 11426 V 27500 1404 Simply Home 11488 V 27500 1405 Simply Ideas 11488 V 27500 1406 Simply Shop. 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1409 Classic FM TV 11488 V 27500 1410 nation217 11488 V 27500 1411 52536 11428 V 27500 1414 Entertainment 11527 V 27500 1414 Entertainment 11527 V 27500 1414 Bop on TV 11546 H 27500 1414 KAGO 1154	1393	ACTV	11390 H 27500
1395 Golf Channel 11390 H 27500 1397 TVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1403 POP Plus 11426 V 27500 1404 Simply Home 11488 V 27500 1405 Simply Ideas 11488 V 27500 1406 Simply Ideas 11488 V 27500 1406 Simply Ideas 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1409 Classic FM TV 11488 V 27500 1410 nation217 11488 V 27500 1411 52536 11488 V 27500 1412 Thomas Cook 11527 V 27500 1414 Entertainment 11527 V 27500 1415 Shop on TV 11546 H 27500 1414 Entertainment 11527 V 27500 1415 Shop on TV	1394	Chat Box	11390 H 27500
1396 Ex&Mart TV 11390 H 27500 1397 TVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1403 POP Plus 11426 V 27500 1404 Simply Home 11488 V 27500 1405 Simply Ideas 11488 V 27500 1406 Simply Shop. 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1409 Classic FM TV 11488 V 27500 1410 nation217 11488 V 27500 1411 52536 11448 V 27500 1413 OBE 11527 V 27500 1414 Entertainment 11527 V 27500 1413 OBE 11527 V 27500 1414 Entertainment 11527 V 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11546 H 2	1395	Golf Channel	11390 H 27500
1397 IVWarehouse 11390 H 27500 1398 Game In TV 11390 H 27500 1399 POP 11426 V 27500 1400 Chart Show TV 11426 V 27500 1401 The Vault 11426 V 27500 1402 Chase-it.tv 11426 V 27500 1403 POP Plus 11426 V 27500 1404 Simply Home 11488 V 27500 1405 Simply Ideas 11488 V 27500 1406 Simply Shop. 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1409 Classic FM TV 11488 V 27500 1410 nation217 11488 V 27500 1411 52536 11488 V 27500 1412 Thomas Cook 11527 V 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11546 H 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11546 H 27500 1414 Entertainment 11527 V 27500 1418 AVAGO	1396	Ex&Mart TV	11390 H 27500
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1403 POP Plus 11426 V 27500 1404 Simply Home 11488 V 27500 1405 Simply Shop. 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1409 Classic FM TV 11488 V 27500 1410 nation217 11488 V 27500 1411 52536 11488 V 27500 1412 Thomas Cook 11527 V 27500 1413 OBE 11527 V 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11546 H 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11546 H 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11546 H 27500 1414 Entertainment 11527 V 27500 1417 Thane Direct 11566 H 27500 1418 AVAGO 11546 H 27500 1420 i Sports TV 11546 H 27500 1421 PCNE Chinese 11565 V 27500 1422 Best Direct <t< td=""><td>1402</td><td>Chase-it.tv</td><td>11426 V 27500</td></t<>	1402	Chase-it.tv	11426 V 27500
1404 Simply Home 11488 V 27500 1405 Simply Ideas 11488 V 27500 1406 Simply Shop. 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1409 Classic FM TV 11488 V 27500 1410 nation217 11488 V 27500 1411 52536 11488 V 27500 1412 Thomas Cook 11527 V 27500 1413 OBE 11527 V 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11546 H 27500 1416 Shop on TV 11546 H 27500 1417 Thane Direct 11546 H 27500 1418 AVAGO 11546 H 27500 1419 Stop + Shop 11546 H 27500 1420 i Sports TV 11546 H 27500 1421 PCNE Chinese 11565 V 27500 1422 Best Direct 11585 H 27500 1423 Best Direct 11585 H 27500 1424 Auctionworld 11585 H 27500 1425 Dating Channel	1403	POP Plus	11426 V 27500
1405 Simply Ideas 11488 V 27500 1407 JobsTV 11488 V 27500 1408 GayDateTV 11488 V 27500 1409 Classic FM TV 11488 V 27500 1410 nation217 11488 V 27500 1411 52536 11488 V 27500 1412 Thomas Cook 11527 V 27500 1413 OBE 11527 V 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11546 H 27500 1416 Shop on TV 11546 H 27500 1417 Thane Direct 11546 H 27500 1418 AVAGO 11546 H 27500 1419 Stop + Shop 11546 H 27500 1420 i Sports TV 11546 H 27500 1421 PCNE Chinese 11565 V 27500 1422 Best Direct 11585 H 27500 1423 Best Direct 11585 H 27500 1424 Auctionworld 11585 H 27500 1425 Dating Channel 11623 H 27500 1426 TelSell 11623 H 27500 1427 revelation <td< td=""><td>1404</td><td>Simply Home</td><td>11488 V 27500</td></td<>	1404	Simply Home	11488 V 27500
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1400 Classic FM TV 11488 V 27500 1410 nation217 11488 V 27500 1411 52536 11488 V 27500 1412 Thomas Cook 11527 V 27500 1413 OBE 11527 V 27500 1414 Entertainment 11527 V 27500 1415 Motors TV 11527 V 27500 1416 Shop on TV 11546 H 27500 1417 Thane Direct 11546 H 27500 1418 AVAGO 11546 H 27500 1419 Stop + Shop 11546 H 27500 1420 i Sports TV 11546 H 27500 1421 PCNE Chinese 11565 V 27500 1422 Best Direct 11585 H 27500 1423 Best Direct 11585 H 27500 1424 Auctionworld 11585 H 27500 1425 Dating Channel 11623 H 27500 1426 TelSell 11623 H 27500 1427 revelation 11623 H 27500 1428 Classics TV 11623 H 27500 1429 Information TV 11623 H 27500 1430 Wrestling Chnl <td>1407</td> <td></td> <td>11400 V 27500 11488 V 27500</td>	1407		11400 V 27500 11488 V 27500
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1414 Entertainment 11527 V 27500 1415 Motors TV 11527 V 27500 1416 Shop on TV 11546 H 27500 1417 Thane Direct 11546 H 27500 1418 AVAGO 11546 H 27500 1419 Stop + Shop 11546 H 27500 1420 i Sports TV 11546 H 27500 1421 PCNE Chinese 11565 V 27500 1422 Best Direct+ 11585 H 27500 1423 Best Direct 11585 H 27500 1424 Auctionworld 11585 H 27500 1425 Dating Channel 11623 H 27500 1426 TelSell 11623 H 27500 1427 revelation 11623 H 27500 1428 Classics TV 11623 H 27500 1429 Information TV 11623 H 27500 1430 Wrestling Chnl 11623 H 27500 1431 FRIENDLY TV 11623 H 27500 1433 EDTV1 11623 H 27500 1433 EDTV1 11623 H 27500 1434 Vectone Bangla 11642 V 27500 1435 VECTONE	1413	OBE	11527 V 27500
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1439 BEN 11662 H 27500 1440 Abu Dhabi TV 11662 H 27500	1437	vectone Bolly	11642 V 27500
1440 Abu Dhabi TV 11662 H 27500	1430	BEN	11662 H 27500
	1440	Abu Dhabi TV	11662 H 27500
1441 CCTV-9 11662 H 27500	1441	CCTV-9	11662 H 27500
1442 Islam Channel 11662 H 27500	1442	Islam Channel	11662 H 27500
1443 Extreme Sports 11681 V 27500	1443	Extreme Sports	11681 V 27500
1444 EuroNews 11681 V 27500	1444	EuroNews	11681 V 27500
1445 GOD Channel 11681 V 27500 1446 GOD REVIVAL 14691 V 27500	1445 1446		11001 V 2/500 11681 V 27500
1447 Life TV 11681 V 27500	1447	Life TV	11681 V 27500
1448 TBN Europe 11681 V 27500	1448	TBN Europe	11681 V 27500

#	NAME	SR- Freq - Pol
1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1469 1470 1471 1475 1475 1476 1477 1478 1477	 HollywoodTV GOD 2 price-drop.tv Screenshop TV Travelshop 2 ntlBroadband Ideal World TV News B4U Music QVC bid-up.tv CNN Travel Channel Lunn Poly TV S4C~ Digidol Vitality Create & Craft Sky News Community Reality TV Factory Outlet Snatch It Record TV Shop America TV Warehouse Vector 24/7 JML Direct Game Network YES 	11681 V 27500 11681 V 27500 11954 H 27500 11954 H 27500 11954 H 27500 11954 H 27500 11954 H 27500 12032 H 27500 12032 H 27500 12032 H 27500 12032 H 27500 12051 V 27500 12051 V 27500 12129 V 27500 12129 V 27500 12402 V 27500 1240
1481 1482 Atlaı	Shop Smart ? Teletext Hols ntic Bird	12402 V 27500 12422 H 27500
1483	GCPE1	12543 H 27500
1484	GCPE2	12543 H 27500
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1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1500 1501 1502 1503 1504	 ALSAT RTV NAPOLI NOVA MAIN NAP9 OSPITE Telemarket 4/352 3 Mb 1 Mo 352 PX 7 GOLD T0028-C008/KTV Georgian Remux TOP CHANNEL Kanal 8 eTV MMTV FANTV SIC INTERNACIONAL LA7 MTV ITALIA RTK PRISHTINA TVSH-SAT Adjara tv TV7 	$\begin{array}{c} 10957 \mbox{ H } 02821 \\ 11003 \mbox{ H } 03254 \\ 11003 \mbox{ H } 03254 \\ 11012 \mbox{ H } 04340 \\ 11017 \mbox{ H } 02500 \\ 11025 \mbox{ H } 02894 \\ 11184 \mbox{ H } 02665 \\ 11304 \mbox{ V } 30000 \\ 11449 \mbox{ H } 16000 \\ 11554 \mbox{ V } 28800 \\ 12568 \mbox{ H } 02893 \\ 12630 \mbox{ H } 06111 \\ 12633 \mbox{ V } 04883 \\ 12656 \mbox{ V } 04883 \\ 12676 \mbox{ V } 04340 \\ 12683 \mbox{ H } 02894 \\ \end{array}$

#	NAME	SR- Freq - Pol	# NAME	SR- Freq - Pol
Arab	sat 2/3A		1561 TRT4	11492 V 30000
1505	Coudi 1	11747 \/ 07500	1562 TRT1	11492 V 30000
1505	Sauur i Kuwait	11747 V 27500 11747 V 27500	1563 TRT2	11492 V 30000
1507	Libva	11747 V 27500	1564 TRT3	11492 V 30000
1508	Sudan	11747 V 27500	1565 DIGITURK	11575 V 30000
1509	Saudi 2	11747 V 27500	1566 SKYTURK	11658 V 30000
1510	Almajd	11747 V 27500	1567 unnamed	11658 V 30000
1511	Oman	11747 V 27500	Turkoot 1C	
1512	AL-IRAQIA	11747 V 27500		
1513	AlManar	11785 V 27500	1568 TRT 1	11096 V 27500
1514	Future	11785 V 27500	1569 TRT 2	11096 V 27500
1515	LBCI Star Acadomy	11785 V 27500	1570 TRT INT	11096 V 27500
1510		11705 V 27500	1571 TRT 3	11096 V 27500
1518	NBN	11785 V 27500	1572 TRT 4	11096 V 27500
1519	AL Arabiya	11785 V 27500	1573 Supersport	11025 V 06510
1520	NEW TV	11785 V 27500	1574 Viva	11025 V 06510
1521	channel 2	11785 V 27500	1575 Gala	11025 V 06510
1522	MBC	11785 V 27500		11025 V 06510
1523	Bahrain TV	11843 H 27500	1577 KANAL7 INT 1578 EUDO TV	11135 V 04444 11135 V 04444
1524	Bahrain 55	11843 H 27500	1579 MMC Euroturk	11135 V 04444
1525	Bahrain Sport	11843 H 27500	1580 TV 8	11830 V 06666
1526	Bahrain FM	11843 H 27500	1581 Service 1	11129 V 04268
1527		11862 V 27500	1582 KANALA	11158 V 03150
1520	ABU DHABI - A	11002 V 27500	1583 EGE TV	12697 H 02400
1528	Almustakilla	11938 V 27500	1584 E MEDYA INTERNA	12705 H 02400
1531	Yemen TV	11938 V 27500	1585 KANAL 6	12685 H 02400
1532	Tunis TV	11938 V 27500	1586 meltem tv com.tr	11873 V 03400
1533	Sharjah tv	11938 V 27500	1587 mesaj tv	11877 V 02600
1534	Aljazeera TV	11938 V 27500	1588 NUR IV	12693 H 02285
1535	Algeria TV	11938 V 27500	1509 yelli tv 1500 Tatlises TV	12036 V 02200
1536	Jordan TV	11938 V 27500	1591 FAS PROMO	12133 V 11719
1537	SAUDI-1	12010 V 18500	1592 BBC WORLD	12133 V 11719
1530		12010 V 18500	1593 atv	12633 V 04800
1540	Alekhharia	12010 V 18500	1594 NTV INT	12715 V 02965
1040	Alexhbaria	12010 10000	1595 LIFE CHANNEL	12590 V 03003
Siriu	s 2		1596 IMEDI TV	12605 V 03700
			1597 GOD	12620 V 06161
1541	RTV21-RADIO21	11739 H 08029	1598 GOD REVIVAL	12020 V 00101 12620 V 06161
1542	KTV-R-DUK	11739 H 08029	1599 KKZ-1K	12020 0 00101
1543	NOVY KANAL	11766 H 27500	Hispassat	
1544		11766 H 27500		
1540			1600 VIT TV	11583 H 20150
1540	ENTER	11766 H 27500	1601 Mana Europa 1	11682 V 03800
1548	TRK UKRAINA	11766 H 27500	1602 EHS	11731 H 28120
1549	Global 1	12111 H 27500	1603 ATLAS SERVICIO AGEN	11731 H 28120
1550	Moscow Open World	12380 H 27500	1604 NUEVA ERA	11731 H 28120
1551	bTV	12465 H 10790	1605 Canal 4 1606 Andolucío TV	11/31 H 28120
1552	ICTV	12633 V 03720	1607 TMSat/La Otra	11811 V 27500
1553	Realitatea TV	12697 V 14685	1608 TVC Int	11811 V 27500
1554		1269/V 14685	1609 TV Galicia	11811 V 27500
1000		1209/ V 14085 12607 V 14685	1610 TV Euskadi	11811 V 27500
1557	RTI 9	11370 V 03260	1611 Movida Local	11931 H 27500
1007		1070 00200	1612 Max Local	11931 H 27500
Eute	lsat W3		1613 Gigashopping	11931 H 27500
			1614 Canal / IV	11931 H 27500
1558	TV Polonia	11175 V 27500	1013 REDE REGURD 1616 Popular Ty	11931 H 2/500
1559	OpenSky_EN	11262 H 27500	1617 Cibernos	11931 H 27500
1560	Mb Suisse	11283 V 27500		1100711 21000

GUIDE DES CHAÎNES

N° Nom		SR- Freq - Pol
1618	Cadena Milagro	11972 V 27500
1619	Cadena Local	11972 V 27500
1620	Tv Amistad	11972 V 27500
1621	Programação	12012 V 27500
1622	Euronews	12092 V 27500
1623	TVE INT.	12092 V 27500
1624	CNBC	12092 V 27500
1625	TBN ENLACE	12092 V 27500
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1627	TV5	12226 V 27500
1628	CCValenciana	12456 V 27500
1629	TV Canaria	12456 V 27500

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RFM RTL NRJ Radio Classique Chérie FM HITWEST Nostalgie RFI Radio Courtoisie 19	10873 V 27500 10873 V 27500 10873 V 27500 10873 V 27500 10873 V 27500 10873 V 27500 10873 V 27500 10911 V 27500 10911 V 27500
FRANCE MUSIQUES FIP France INFO France INTER France BLEU RFI INT RADIO CLASSIQUE EUROPE 1 RMC RTL RIRE ET CHANSONS SUD RADIO M FM TSF NOSTALGIE BFM PARIS JAZZ NRJ	12207 V 27500 12207 V 27500
	dBeur France Musiques Hector FIP France Inter France Info France Culture France bleu Le Mouv Europe 1 Europe 2 RFM RTL NRJ Radio Classique Chérie FM HITWEST Nostalgie RFI Radio Courtoisie I9 FRANCE MUSIQUES FIP France INFO France INFO France INTER France BLEU RFI INT RADIO CLASSIQUE EUROPE 1 RMC RTL RIRE ET CHANSONS SUD RADIO M FM TSF NOSTALGIE BFM PARIS JAZZ NRJ

N° Nom	SR- Freq - Pol
1040 RTL 2 1041 SKYROCK 1042 FUN RADIO 1043 LE MOUV 1044 RADIO NOVA 1045 RADIO FG 1046 VIBRATION 1047 CONTACT FM 1048 RADIO LATINA 1049 RFM 1050 CHERIE FM 1051 ALOUETTE 1052 VOLTAGE 1053 OUI FM 1054 ADO 1055 COULEUR 3 1056 RFI MUSIQUE 1057 RADIO NOTRE-DAME 1058 RADIO ALPHA 1059 RCJ / SHALOM 1060 BEUR FM 1061 MEDIA TROPICAL 1062 AFRICA N1 1064 France CULTURE 1065 WRN 1066 RADIO DU VOYAGE	12207 V 27500 12207 V 27500



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