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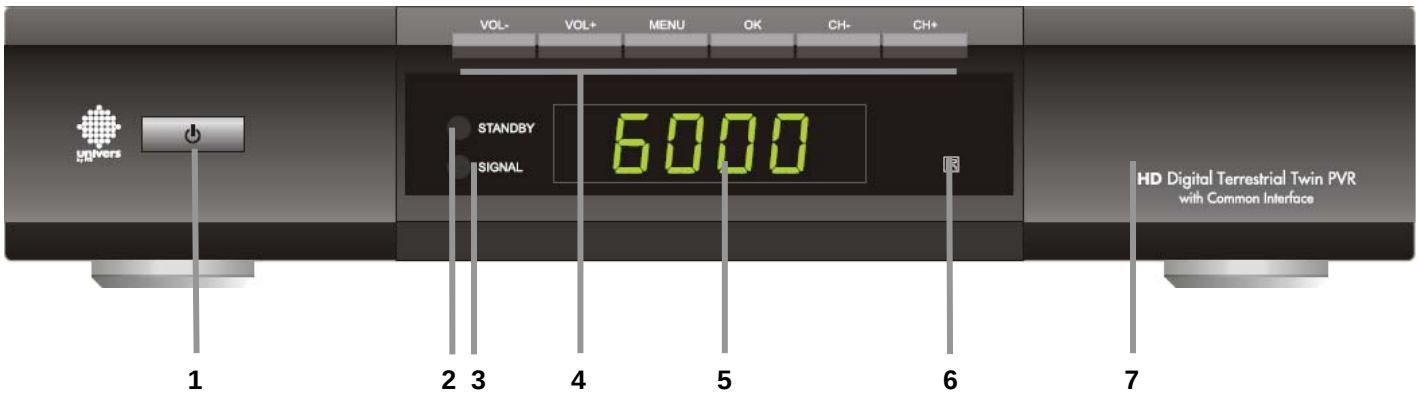
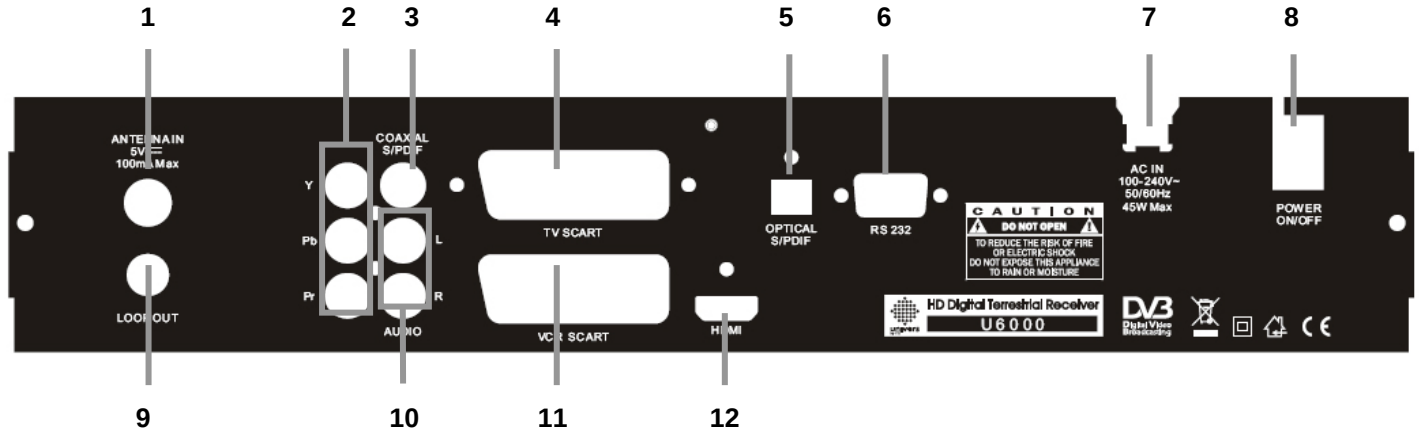
0 Control elements and connections

0.1 Front Panel



1	**POWER:**	Switches the receiver ON or in Standby mode. For total switching off, use the main switch at the back side of the receiver.
2	**STAND-BY-LED:**	Shows if the receiver is in Standby mode (when LPC mode is ON)
3	**FRONT BUTTONS:**	Buttons for administrating that have the same functions like the buttons on the Remote Control.
5	**DISPLAY:**	Four digits to provide program information.
6	**IR-SENSOR:**	Receiver of Remote Control signals.
7	**USB:**	Open the lid and will have access to the conditional access and the USB[1].

0.2 Rear Panel



1	**ANTENNA IN 1:**	Input for the first digital tuner
2	**Y, Pb, Pr:**	RGB output video output for external monitor, TFT or video beamer.
3	**COAXIAL S/PDIF:**	Coaxial output for digital audio
4	**TV SCART:**	SCART output to connect to a TV.
5	**OPTICAL S/PDIF:**	Optical output for digital audio
6	**RS-232:**	Serial port to update the firmware of the receiver.
7	**AC IN:**	Power cord 230VAC/50Hz.
8	**POWER ON/OFF:**	Main switch to switch off totally the receiver.
9	**LOOP OUT :**	Output from first digital tuner.
10	**AUDIO:**	Audio output for home audio systems**.**
11	**VCR SCART:**	SCART connector for video recorder, DVD recorder or DVD player.
12	**HDMI:**	High Definition video and audio connector for the TV.

1. USB optional. Not available in all models

0.3 Remote control

1. POWER: Switch on or put in stand my mode.

2. LEDs: Shows the selected transmission code 1, 2 or 3.

3. A/V: Switches between TV Scart and VCR Scart.

4. CODE: Changes the code of the remote control.

5. MUTE: Switches audio on and off.

6. KEYBOARD: For direct typing values and names.

7. CH+ CH-: Changes channel up and down.

8. VOL+ VOL-: Adjusts audio volume up and down.

9. GUIDE: Shows information about the EPG guide.

10. MENU: Main menu.

11. TEXT: Open and closes the teletext.

12. Back: Quits from menu or stops current operation.

13. ◄ ►**:** Adjusts audio volume or control cursor in menu.

14. ▲ ▼**:** Adjusts channel or control cursor in menu.

15. OK **:** Confirms selection or opens cannel.

16. TV: switches between TV or Radio channels.

17. INFO: Shows information about the channel.

18. Colour's keys: Control menu options.

19. www: *No function in this model.*

20. A/B: Opens audio menu.

21. Home: *No function in this model.*

22. Sub: Switches subtitles on / off.

23. Pup Pdw: Moves cursor in block steps.

24. Fav+ Fav-: Moves favourite channel up and down.

25. ►|| **:** *No function in this model.*

26. ►► **:** *No function in this model.*

27. ◄◄ **:** *No function in this model.*

28. ■ **:** *No function in this model.*

29. App1: *No function in this model.*

30. App2: *No function in this model.*

31. App3: *No function in this model.*

32. REC**:** Setting the VCR function from the EPG

1 First installation

NOTE: This user's manual is adapted for 5002.5 and software versions at November, 14th 2008. For further firmware updates, can download the user's manual in the site: http://www.universbyfte.com/

1.1 Box content

When opening the box, you will find the following items.

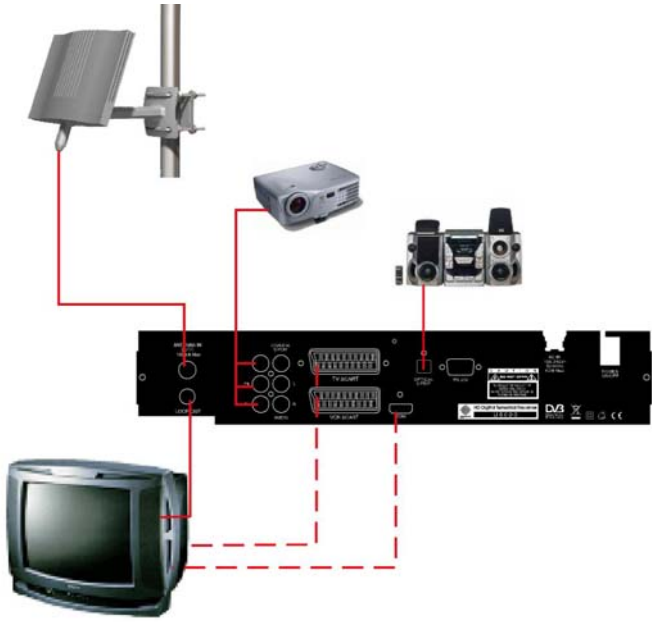
Remote control

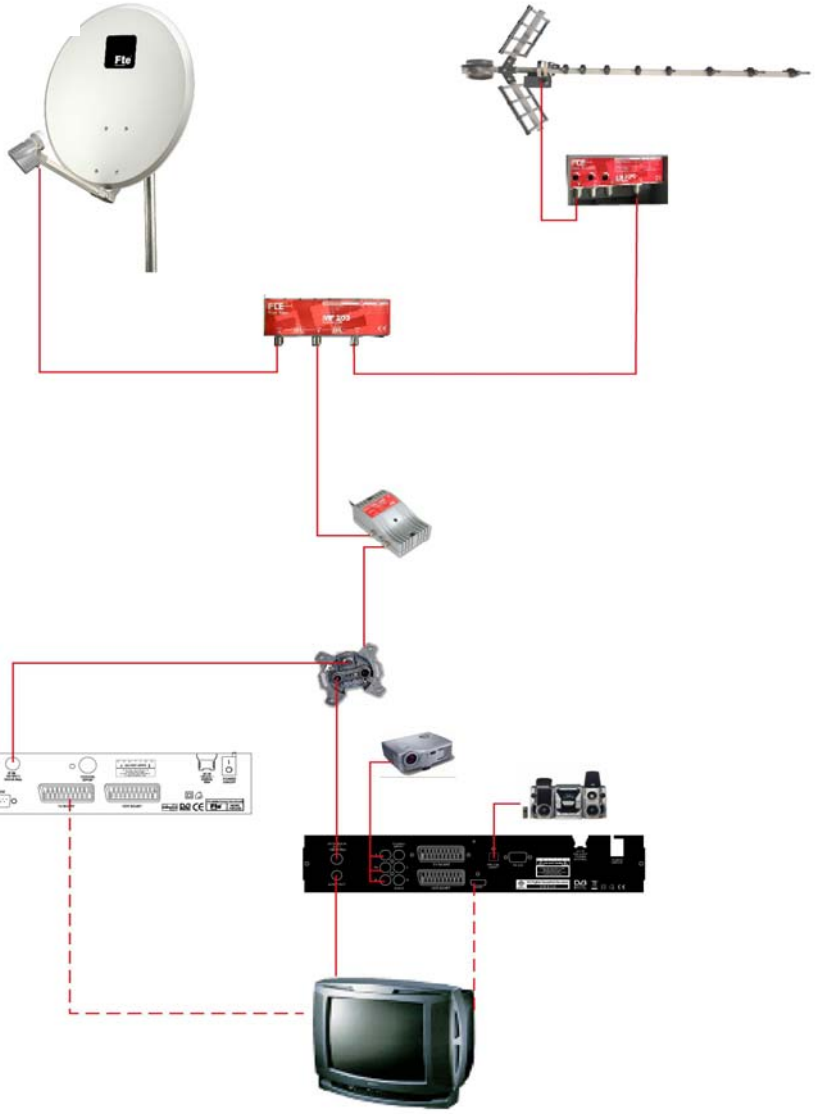
Instalation guide

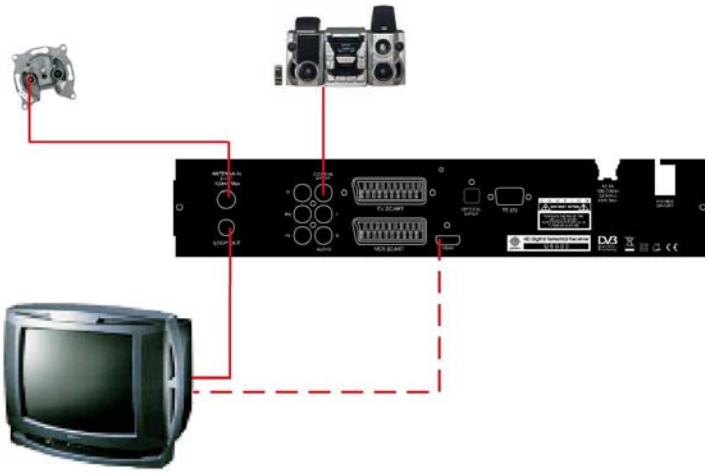
Two batteries
AAA kind, Micro, 1,5V

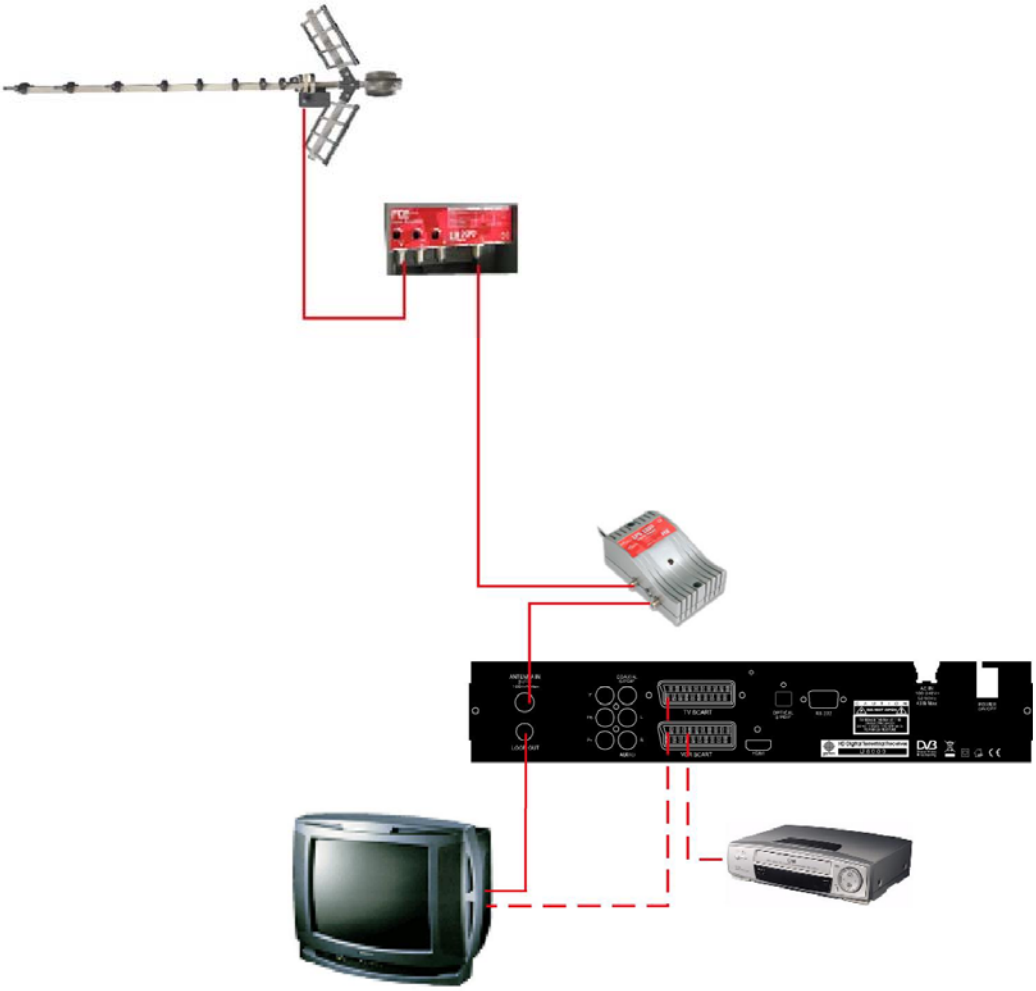
1.2 Accessories and installation examples

U3500 Active DVB-T- outdoor antenna
U3200 Active DVB-T- indoor antenna
U3201 Active DVB-T- indoor antenna with picture frame



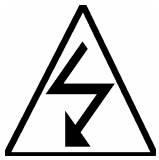






1.3 Safety Rules

Please read the manual carefully before using the receiver.
You will receive a lot of information to use this product correctly and you will prevent incidents.
Please keep the manual on a safe place.



This sign warns you about high voltages, with risk of electric shock

Caution: Do not open the housing of this receiver. Repairs can only be made by professionals authorized. If not, warranty will not be valid anymore.

This sign informs about special information which is important to know.

Caution: Keep this receiver far away from liquids. Do not place it on placements close to water like flowers vases, wash basin, aquariums or pools. It exists a high risk of electric shock when water or high humidity filters inside the receivers. Never place other devices on it; they can overheat the receiver as well as daring fire risk. The receiver must be used only with original power cord to 230V main plug.
Please read carefully this manual and do not hesitate to contact to professional help if you have any doubt.

Opening the receiver housing as well as the Hard Disk case will mean a total lost of warranty.

Installation:

1. Never work during a thunderstorm or staying near of the antenna systems.
2. Before adjusting the receiver, make sure that your antenna is well aligned and works properly.
3. Unplug the main connection (230V) every time you work with receiver connections. Do it also when you stay away for a long time out of home like in holiday periods.
4. The best placement for the receiver is close to the TV and your other equipment like DVD, VCR, CD, and game stations. Select a stable place where you can make the necessary connections in a safety way.
   The 230V main plug should be in a place easy to reach, that you can unplug it when it is necessary.

Cleaning: Before cleaning the receiver with a slightly damped cloth, please disconnect the main 230 V connection from the receiver. Please use only mild cleaners.

Accessories: Please, do not use accessories which are not agreed by the manufacturer of the receiver. Unsuitable accessories could increase the risk of getting on fire, an electrical impact or other damages.

Placement: Select a placement where the Receiver has air circulation enough; otherwise it may have overheating accumulation. Do not cover the openings of the housing. Unsuitable placements are also places close to heaters or soft locations like e.g. sofas and beds.

Power connection: Select a main plug with easy access, in case of unplugging necessity; it will be easier and faster. Please, make sure that the cord as well as the plug is in perfect conditions. Do not pull the cable, use always the plug.

Housing: Please, make sure that no liquid will filter into the housing of the receiver. If so, disconnect immediately the receiver from the main 230 V plug and bring the receiver to a professional.

Air humidity: When you take the Receiver from a cold to a warm place, please wait until the receiver gets the same temperature as the new environment, in order to avoid problems of humidity condensation.

Maintenance / Repairing: Within the warranty time all the repairing processes should be done by authorized technical staff. Otherwise, the warranty will be lost.

1.4 Fast Installation Guide

To begin with an easy and fast way to connect your digital receiver, follow these steps.

Step 1: Connections

Connecting the antenna cable

Connect the antenna cable coming from your DVB antenna or distribution system to ***Antenna IN 1***.

Connecting the equipment to a TV set, LCD or video beamer
You can connect in different ways your TV set or other display system:

HDMI connector	Use this connector in order to get full audio and video quality, high definition.
TV SCART	This is the connector which will be normally used to connect the TV. For this purpose, you will need a Scart – Scart connector.
VIDEO SCART	At the ***VCR - Scart*** connector, you can connect a Video or DVD-Recorder. Also the signal coming from a DVD player is possible to be viewed if your TV set has Scart connections.
LOOP OUT	This output may be used to be connected at the input of your TV or video recorder to receive analog signal.

You can obtain further information in "receiver back panel" chapter.

Second step: Basic settings

The provided remote control allows using a DVB-T, DVB-C or DVB-S receiver at the same time.
For this purpose, by default your DVB-T receiver is configured with code 2.
Please, press ***code*** button until led 2 becomes on.
If had any problem with the remote control, you can change the code of the receiver in ***Menu>characteristics>remote control*** once have finished the fast installation guide.

When installing the receiver for the first time or after realizing default settings, you will have to select menus language.

Selecting the options from the menu is done via , buttons and ***OK*** button on the remote control.

Languages

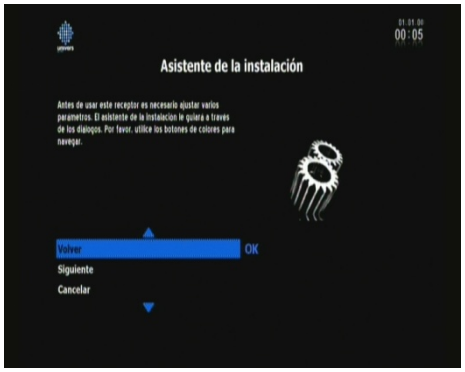
Here you can select the language of the menus and information as well as first and second audio with the buttons: .

Once selected the language, use the buttons to select ***next*** and ***OK***.

Installation assistant

In this menu, an assistant is introduced in order to guide during whole installation

Use the buttons to select ***next*** and ***OK***.



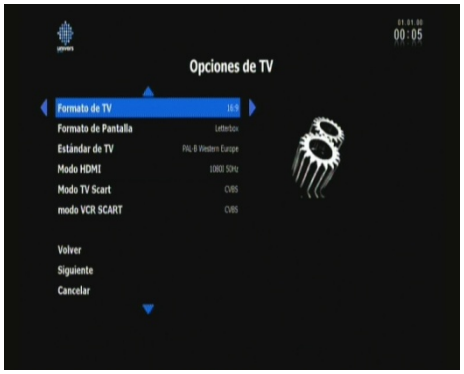
TV options

Here you can select how to adapt the TV and choose screen formats.

TV Format

Select TV format for your TV.

Options: ***4:3*** y ***16:9***, use buttons to change it.



Screen format

Options: ***Pan&Scan***, ***Letter Box or Stretch***, use buttons to change it.

With this option, can choose how will visualize films with large format in your screen.

If choose ***Pan&Scan*** both sides left and right will be cut.

If choose **Letter Box** the image size will be reduced and will see two black bars up and down.

If choose ***Stretch*** upper and down bars will be eliminated if detected.

TV standard

Select the system supported by your TV.

Options ***NTSC***, ***PAL*** and ***SECAM***

Use buttons to change it.

HDMI mode

Number of lines and frequency of high definition image.

Options: **720p 50Hz** y **1080I 50Hz**

Use buttons to change it.

If the option is modifies, will appear a window asking if want to change or not.

TV scart mode

Here you can see the way in which colors are sent to the TV.

Options: **CVBS** y **RGB**

VCR scart mode

Incoming video signal from an external source.

This signal can be from a video recorder or a DVD

Use the buttons to select ***next*** line and ***OK***.

Antenna

This menu offers the possibility to feed an active DVB-T antenna within 5Vdc.

Use the buttons to select ***next*** and ***OK***.

If you see a message like this on the screen it means there is a short circuit. Disconnect the receiver and check installation.

Channels search

This receiver has no cannel preprogrammed list since it is different in each area.

Channels list

Select a ***new*** cannel list.

Services

In each selection you will always have the possibility of searching ***free to air channels*** (not scrambled channels) or ***All the channels***

Use buttons to select the line ***Begin*** and then press ***OK***
The receiver will search in all TV frequencies.

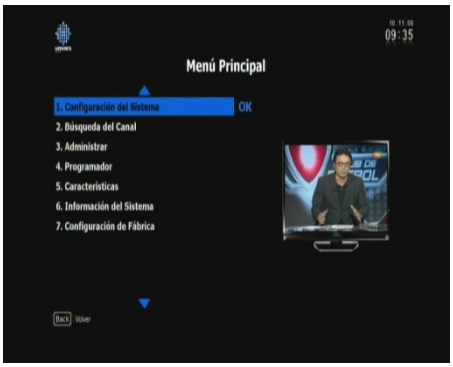
Can stop the searching by pressing ***OK*** button at any time.
Once finished the searching the receiver will save all programs found automatically and show the first one found.

The clock of the receiver will then be set automatically.

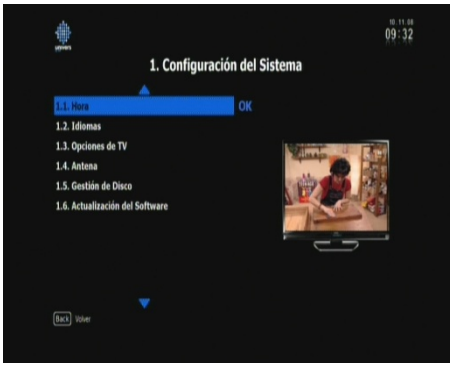
Here finishes the fast installation guide.

1.5 Menu

Main menu



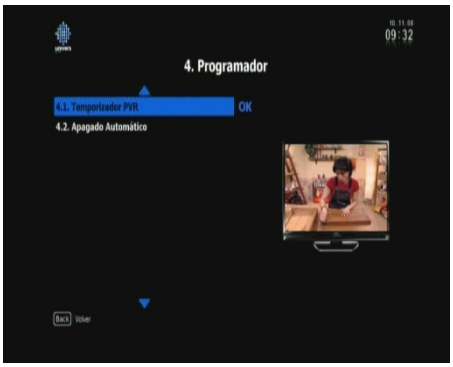
System settings



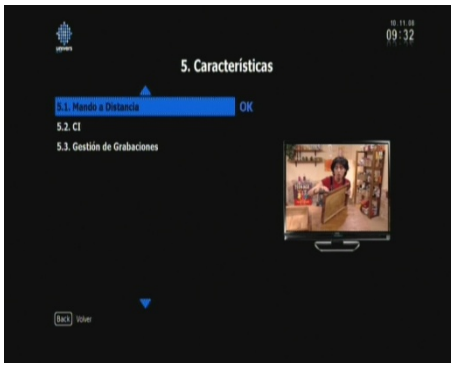
Channel search

Manage

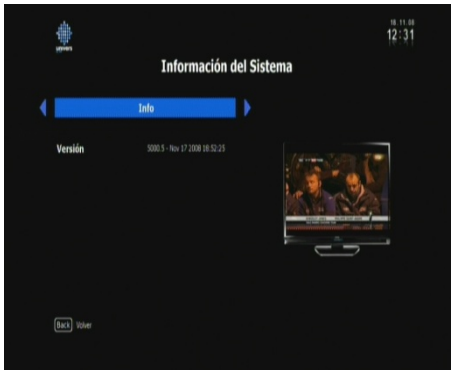
Timer



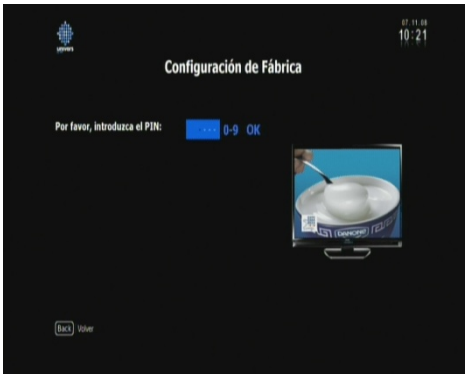
Features



System info



Factory reset



2 Basic functions

2.1 Receiver switching on

The receiver has a main switch button at the rear panel. To switch it on, set it in position 1. It will automatically switch on and show information on the screen.

2.2 Standby mode

To switch from standby mode at switched on, press the red button (***standby***) on the upper left side of the remote control.
Once the receiver is in standby mode, if press a second time the red button (***standby***), the receiver will switch on in the last visualized channel.
If you switch off the main switch button, it will be initialized showing channels list.

2.3 Teletext

Text button opens the teletext function.
The receiver automatically loads page 100.
You can introduce the desired page by pressing ***0-9*** buttons.

For example, to open page 290, you will need to press ***2–9–0*** buttons.
When want to close the teletext, press ***Back*** button.

2.4 MUTE

With this function you will be able to silent the receiver totally in a fast way.
Press ***Mute button***, it will appear a notice on the screen.
By pressing a second time the functions deactivates.

2.5 Numeric block on remote control

Over the numeric block in the remote control, you can select directly channels the when you know the stored program place.
If you want for example place 23, you have to press the buttons 2 and 3 and after the button ***OK***

2.6 Switch channels

With the buttons ***CH+*** / ***CH-*** or you can change the channels also.
Press one button for getting one channel up or down.

2.7 Change between TV- and Radio channels

When you want change between TV and Radio channels, you have to press the button ***TV/R*** on the remote control.

2.8 Vol+/Vol- Volume

By using ***VOL+ / VOL-*** or buttons can regulate the audio volume.
You will see a graphical bar like the on the right
To use this function correctly, you will need to adjust properly the audio level of your TV.
Switch off the volume of your receiver. You can use Mute function. Adjust your TV audio level until you hear a background noise on your TV, decrease a little bit the level until the noise disappears. It is normally between 50% and 75% of the total audio level of the TV. Deactivate Mute function and adjust the level of the receiver.

2.9 Stop the functions

With ***Back*** button, you can stop current functions, exit menus or stop channel search.

2.10 Open main menu

To open the main menu, you have to press the button ***MENU***.
The menu system is made in a tree structure

In order to navigate in the menus, use buttons.
OK button will let you enter into the submenus. Back button will let you go back.

2.11 Channel list

If you are not inside any menu, by pressing ***OK*** will go inside the channel list.

Use buttons to navigate inside the channel list and if you wish to change page press buttons.
Press ***OK*** button to visualize the selected channel.
With ***TV*** button you will be able to switch between TV and radio channels.

To exit press ***Back*** button.

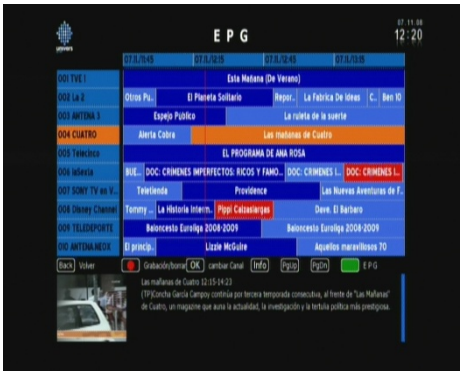
2.12 Electronic Program Guide EPG

By pressing the button ***Guide*** you will start the electronic program guide.
The receiver gets the information of the tuned channel. The information will only be available in case the broadcaster transmits it.

Orange color shows the current selected event.
At the bottom of the screen, it will appear information regarding the event selected by the cursors. If you also wish to visualize the event on the screen, press ***OK*** button.
By pressing ***Info*** button you will be able to get complementary information assuming it may be too long.

Buttons **PgUp** and **PgDn** will let you navigate

By setting the cursor above the desired event and pressing ***Rec*** button, the event will be programmed. This function is detailed in Timer.
Once the event has been programmed, it remains in red color.



Interfaces

The receiver has three different interfaces to visualize the EPG.
If you wish to change it press the ***green*** button.

Sorting per channel and time scheduling
This interface shows a list with the different programs regarding to different channels and time scheduling. It allows changing the different time schedule and channels simultaneously.
By the buttons can select the channel and by can select an event in the desired time schedule.

Sorting per channels

This screen the programming is sorted per channels, allows changing the channel and visualizing each from each channel its programming regarding the time scheduling.

With the buttons can select the channel and with can select an event.

Sorting per time scheduling

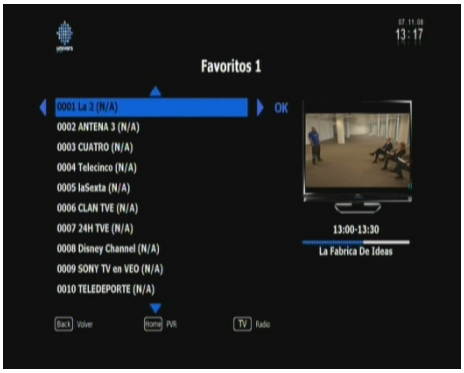
In this screen you can get all the information sorted per time scheduling from all channels. It allows knowing easily, the program scheduling in one specific time.

With the buttons can select an event.

To exit press ***Back*** button.

2.13 List of favorite channels

The receiver can memorize four lists of favorite channels.
The receiver can work with all channels or only with the specific ones from one list of favorites.



It will only make sense when press ***OK*** button to view the channel list or when press ***CH+***/***CH-*** o to change the channel.
You can change the working mode by pressing ***Fav+***/***Fav-*** buttons.
In this case you will swap between:

All channels ⟷ Favourite 1 ⟷ Favourite 2 ⟷ Favourite 3 ⟷ Favourite 4

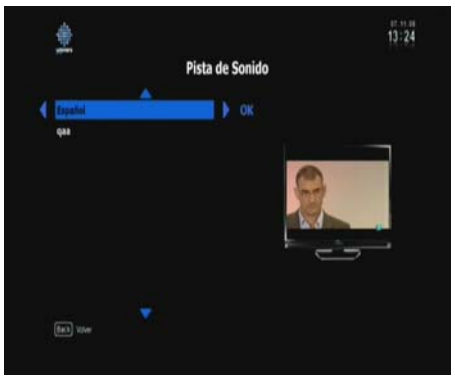
You can also get the desired list of favorites by pressing directly the coloured buttons, totally configurable and by default are set with the following correspondences:

Red:	Favourite 1
Green:	Favourite 2
Yellow:	Favourite 3
Blue:	Favourite 4

To work again with the whole list of channels, press ***TV***.

To exit press ***Back*** button.

2.14 Audio menu



Not being in any menu can get in this menu by pressing ***A/B*** button.
You can select the different audio out options by pressing
and then ***OK***.

By testing the channel you will be able to get the more convenient choice. The common choice is ***stereo***

You can exit by pressing ***Back***.

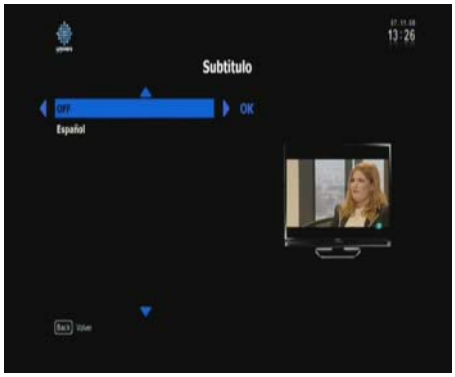
2.15 Channel information

If you press ***Info*** button not being in any channel, you will get information related to that chanel. It is the same information can see when changing the channel. It is: name of the channel, date and current time and the title, start and end time of the current and next event.
The lapsed time is showed in the bar.
By pressing ***Info*** once again, it will appear a brief description provided by the EPG.

To change page in description, use buttons
With the buttons you swap between next and current event.

By pressing ***Info*** a third time, you will be able view the program.

2.16 Subtitles



By pressing ***Sub*** button not being in any menu you can get the subtitles menu.
These are only available if the chanel provider is transmitting them.

With the buttons ***CH+*** / ***CH-*** or you can change the subtitles.
Press ***OK*** once selected.
To deactivate them select ***OFF*** in that same menu.

To exit press ***Back*** button.

3 System settings

3.1 Time

This option lets you adjust current time depending in the Sone Time where you live. Options: ***Auto*** and ***Time zone***

Auto
The clock of your receiver is set depending on your residence place.

Time zone
This option lets adjusting the clock manually. To change it, chose the option **Local Time Zone** and select your time regarding to Greenwich: ***GMT, GMT+ 1, GMT -1, GMT +2,…***

Example for UK:

Summer time: +1 hours
Winter time: GMT hour

3.2 Languages

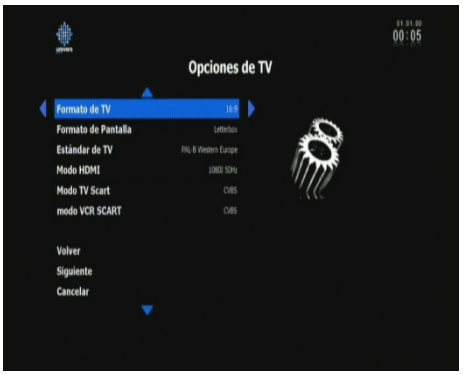
In this menu you can choose the receiver language and first and second audio language. You can select: English, French, German, Spanish, Portuguese, Swedish, Finnish, Turkish, Norwegian and Russian.

Select the language by using buttons.

3.3 TV Options

Here you can select how to adapt the TV and choose different screen formats.

TV Format
Select TV format for your TV.
Options: ***4:3*** y ***16:9***, use buttons to change it.



Screen format
Options: ***Pan&Scan***, ***Letter Box or Stretch***, use buttons to change it.
With this option, can choose how will visualize films with large format in your screen.
If choose ***Pan&Scan*** both sides left and right will be cut.
If choose **Letter Box** the image size will be reduced and will see two black bars up and down.
If choose ***Stretch*** upper and down bars will be eliminated if detected.

TV standard
Select the system supported by your TV.
Options ***NTSC***, ***PAL*** and ***SECAM***
Use buttons to change it.

HDMI mode
Number of lines and frequency of high definition image.
Options: **720p 50Hz** y **1080I 50Hz**
Use buttons to change it.
If the option is modifies, will appear a window asking if want to change or not.

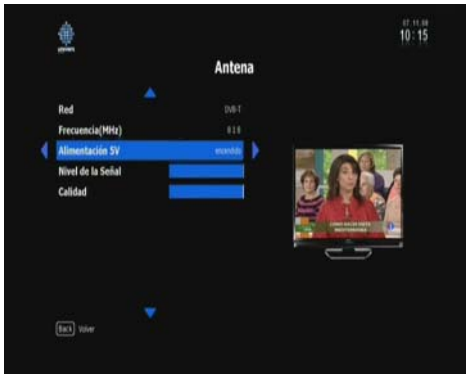
TV scart mode
Here you can see the way in which colors are sent to the TV.
Options: **CVBS** y **RGB**

VCR scart mode
Incoming video signal from an external source.
This signal can be from a video recorder or a DVD
Use the buttons to select ***next*** line and ***OK***.

3.4 Antenna

Technical information about the selected channel like frequency, power and quality is shown in this menu.

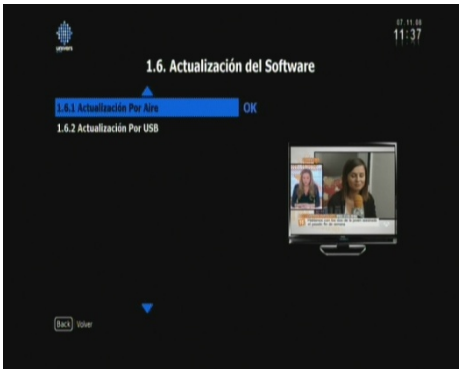
From this menu you can also feed an active DVB-T antenna with 5VDC.



If you see a message like that in the screen, there is a short circuit in the aerial input. In this case, switch off the receiver and check the installation.

3.5 Software Update

With this option you will be able to update the receiver with the last available software version.



3.5.1 On Air updating

With this menu you can download software updates via OTA. Introduce ***frequency***, ***Stream PID*** and ***PIN code*** and go to line **Start**. Press ***Ok*** in order to begin with the update.

NOTE: This option is not operative at present time.

3.5.2 USB update

This menu allows beginning the software update from a USB stick.

The memory stick must be USB 2.0 with FAT32 or FAT16 format. At the moment of updating there can only be one file in the root of the memory stick.

Attention
After realizing the update, the receiver will switch off automatically. Do not switch it off manually.

NOTE: Only for those models with USB connector provided.

3.5.3 RS232 updating

To proceed updating via RS232, you can download the software and the updating manual from the site http://www.universbyfte.com.

4 Channel search

4.1 Automatic search

From this menu you can begin channel search automatically.

Channel list
You can create a list of channels (***new***) or add channels to the current list (***add***).

Services
In each selection you will always have the choice search ***Skip pay channels*** (channels with any kind of scrambling) or ***All .***

To begin a search, go to ***Start*** and press ***Ok.***
You can stop the search at any time by pressing ***Ok*** button once again.

Once the search is finished, you will need to memorize the new list of channels. Go to line ***Store*** and press ***Ok***.

4.2 Transponder Scan

With this menu you can carry out a search either per frequency (MHz) or per ***channel***.

Frequency (MHz)
Edit this field with the buttons and the numerical part of your remote control. The channel number of the corresponding frequency will automatically be changed.

Channel
Edit this field with the buttons and the numerical part of your remote control. The frequency of the corresponding channel number will automatically be changed.

Channel list
You can create a list of channels (***new***) or add channels to the current list (***add***).

Services
In each selection you will always have the choice search ***Pay/free*** (channels with any kind of scrambling) or ***All .***

Channel searching
If you select the option ***Mux***, the receiver will automatically carry out the search in the desired channel. In the case you select Red, when tuning the desired ***Network*** it will identify in the NIT (Network Identification Table) and the receiver will search all the channels in that network.

Once all the options are set proceed as stated in *Automatic search* in the present manual.

5 Manage

5.1 Services

In this menu you will find a global view of the channels.
The channels may be sorted or deleted.

Use the button ***OK*** to change cursor position in order to modify each field.

In the first filed you will be able to select the list of channels that want to administrate: All or any Favourite List . Use the buttons to change it.

In the second field you can swap between TV and radio channels. Use the buttons to change it.

In the third field there is the list of channels.
You can move by using and buttons.

With the ***red*** button, you delete the selected channel, with the ***green*** you move upper to the previous list of channels and down with the ***yellow*** button.

To exit, press ***Back*** button.

5.2 Favourites

Here you can create lists of favorite channels.

There are two columns. On the left, there is the full channel list and on the right you find the list of favorite channels selected.

By pressing TV, you swap between channel and radio programs.
To change the list of favorites 1, 2, 3, and 4, press the red button.

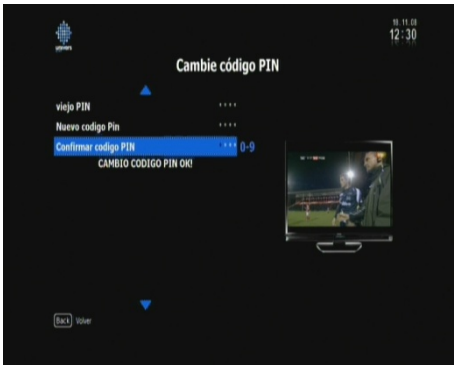
To move among all the channels, press buttons.
To introduce one channel in the list of favorites, move the cursor to the left column on the channel to be moved and press ***OK***.

You can swap between two columns with buttons.
To delete on channel on the list of favorites, put the cursor on the channel to be deleted and press ***OK.***

To exit press ***Back*** button.

5.3 Change PIN code

In this option you can change the PIN of your receiver by using the numerical part of your remote control.



The first is introducing the current PIN of the receiver. If is has not been changed previously it is 0000. Then you will have to introduce the new one and confirm it. If the values are correct, there will appear one message informing the change of the PIN has been successful.

To move among all the fields, use buttons.

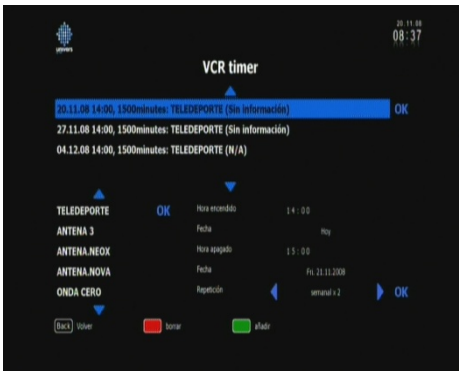
To exit press ***Back*** button.

6 Timer

6.1 VCR Timer

From this menu the user can program the receiver in order to view one cannel at the scheduled time. This option may be used to save one event in a outer device (DVD, Video recorder,…)
The events may be programmed via EPG or manually.
The minimum time allowed is 2 minutes.

The VCR Programmer Timer will work both switched on or in stand by.



Receiver on (swithched on)
If the timer is progrmamed in one cannel and at the moment of begin recording, another program is being viewed, the receiever will swap the program one minute just before initiating the recording. Once finished the recording, the receiver maintains in the recorded channel.

Stand by mode
In this mode, the programmer will switch on just at the beginning of the event and once recorded, comes back in stand by mode.

With the **Ok** button, the user changes the selected item.
To finish press the **Back** button.

6.1.1 Add Timers

Follow these steps:

Channel
Select the channel to be recorded with buttons and then press ***OK.***

Start time / Stop time
Introduce both the starting and finishing time of the event by using the numerical part of your remote control and press ***OK***.

Date
To modify the date of beginning and ending of the event use buttons and then, press OK.
You can select the date from the current date up to the following month.

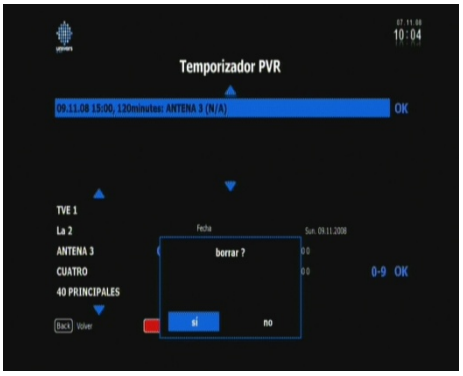
Repetition
This option will let you program easily the daily and weekly events.

Daily events
When selecting ***daily x1***,…, ***daily x30***, the recording will be repeated in the following days for that event.
If you select ***daily x1*** a timer will be created in the same time of the following date, if you select ***daily x2*** a timer will be created for the two following dates,…
You can prepare recordings up to 30 days after.

Weekly events
When selecting ***weekly x1***,…, ***weekly x30***, the recording will be repeated in the following weeks for that event.
If you select ***weekly x1*** a timer will be created in the same time of the current week, if you select ***weekly x2*** a timer will be created for the current and following week,…
You can prepare recordings 4 weeks after.

Endly, press the ***green*** button (add) to add the event to the list.

6.1.2 Delete timers



Whenever you want to delete a programacion, select it from the list and press the ***red*** button (delete).
It will appear a window asking if want to delete the event or not.
Options: ***Yes***, ***No***.
Press OK to confirm the desired option.

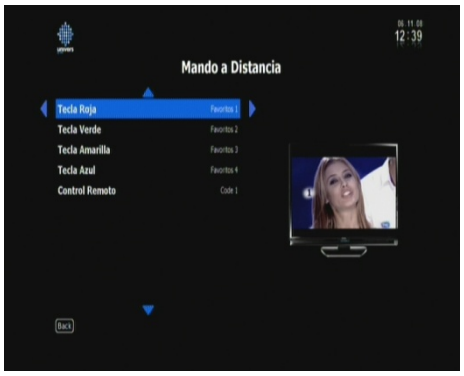
6.2 Sleep timer

If you wish that your receiver switches off by itself, select the time left for that action in this option.
Options: ***5 min, 10 min,... , 180 min***
Use the buttons to move in the options.
Press ***OK***, to activate the auto power-off.
To deactivate the auto power-off, press ***OK*** again.

At the bottom of the screen, it will appear continuously the state of this option.

7 Features

7.1 Remote Control



From this menu you can set list of favorites to the colored buttons and change the remote control code.

Select the colored button you want to change by buttons and change the list of favorites by buttons.

By doing this, when not viewing the teletext, by pressing the colored buttons you will get directly to favorite list of channels you have set.

In the **R*emote Control*** option, you can change the remote control reception code if it enters in conflict with other devices.

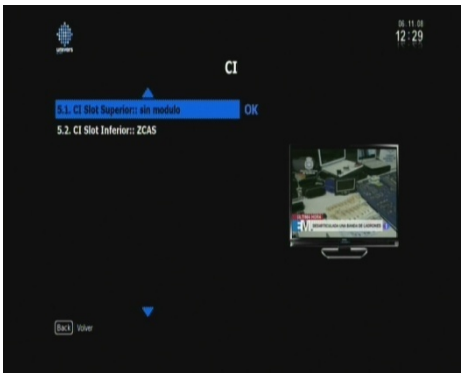
Use the buttons to change it. It will first appear a box message in which you do have to introduce the PIN code assigned (If not previously changed, by default, 0000).

Once introduced, you will be able to change the reception code of your receiver.

Do not forget to change it in the remote control as well. To proceed, press the ***CODE*** button until the desired LED

To exit press ***Back*** button.

7.2 CI Module



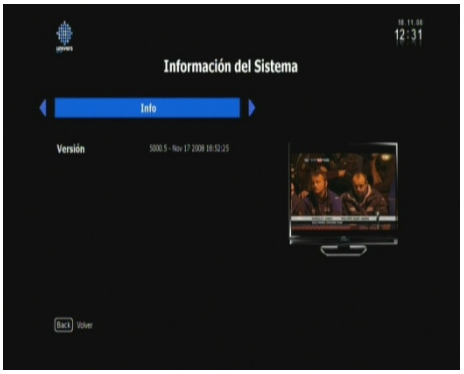
In this option you will find the information related to the conditional access. If there is not interface or it is wrongly introduced, the message "There is no module" will appear. With the CI module introduced properly, there will appear the data of the card. Please, follow the instructions on the screen.

8 System Info

In this window the receiver shows information about its software and hardware.

You can navigate by using buttons.

In the ***Info*** field it is shown the software version of the receiver.



In ***Encoding system*** field, you will find information related to the conditional access if you are using one of the CAM modules.

9 Factory reset

With this option you can restore all the configuration values to the initial state as when it was manufactured.

Attention: Do it only if you are 100% sure.

The recordings on the hard disk device will not be deleted.

To proceed you need to introduce the PIN (0000, if not changed) from your remote control. Then press ***OK*** button.

10 Technical characteristics

10.1 Technical Data

The services of your DTT receiver are performed only by its hardware and electronics.
Most of the functions are performed via software.

General

Model	**U6000**
Reception range	**DVB-T (VHF + UHF)**
Memories	**4000**
Languages OSD	**English, German, French, Spanish, Italian, Portuguese, Swedish, Finnish, Turkish, Norwegian and Russian**
Electronic Program Guide (EPG)	**Yes**
Integrated teletect decoder	**Yes**
Data connections	**RS232/ USB 2.0 HighSpeed[1]**
Input characteristic impedance	**75 Ohm**
COMMON INTERFACE	**2 modules CI**

VIDEO

Format	**MPEG-MP@ML, MPEG-2 MP@HL, MPEG-4 AVC/H.264 HP@L4**
Bit Rate	**max. 15Mbps**
Output	**NTSC / PAL / SECAM**
Screen format	**4:3 / 16:9**
Resolution	**720x576, 1920x1080i**
Connectors	**HDMI, TV-Scart(CVBS), VCR-Scart(CVBS), YUV**

AUDIO

Format	**MPEG/MusiCam Layer I & II**
Samples frequencies	**32 / 44,1 / 48**
Connectors	**HDMI, TV-Scart, VCR-Scart, RCA, S/PDIF coaxial, S/PDIF optical**

DEMODULATION

Demodulation	**COFDM 2k, 8k**
Guard	**1/4, 1/8, 1/16, 1/32**
Input data rate	**2-45 MS/s**

INPUT SIGNAL

Input frequencies	**VHF-UHF**
Input level	**-76dBm -20dBm**

VARIOS

Entrada de corriente	**100~240VAC, 50Hz~60Hz**
Consumo con el disco duro trabajando	**Typ. 20W, máx. 45W**
Tamaño	**360×270×65mm**
Peso	**2,2 Kg**

1. USB Optional: Only for the equipment with USB.