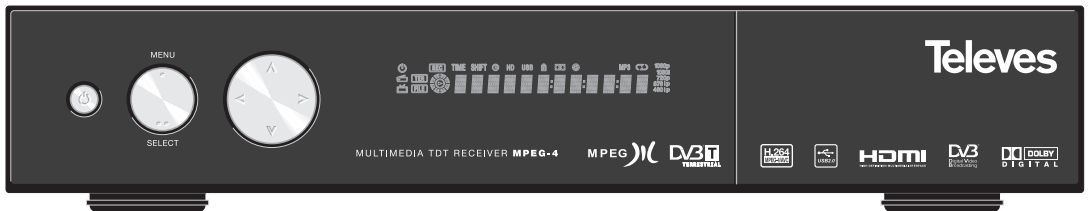


Televes

DVB-T Receiver (HD+MPEG4)



Ref. 7143

User Manual

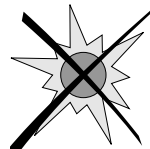
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1.- Safety measures

The Receiver that you have just purchased has been manufactured to meet international safety standards.
We recommend that you carefully read the safety instructions below.

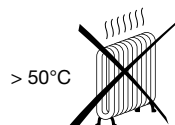
POWERING:

100 - 250 V~ 50/60 Hz.



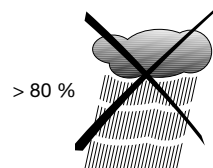
OVERLOAD:

Do not overload the mains sockets, extenders or adapters to avoid a fire hazard or electric shock.



LIQUIDS:

Do not wet or splash the receiver.
Do not place objects or containers with liquids on top of or beside the equipment.

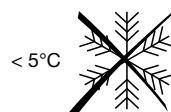


SMALL OBJECTS:

Avoid placing small metallic objects close to the unit. These could accidentally enter through the ventilation slots of the Receiver and cause serious damage.

CLEANLINESS:

Unplug the Receiver from the mains before beginning to clean it.
Use a slightly damp, soft cloth (no detergent) to clean the outside of the unit



VENTILATION:

Place the Receiver in a well-ventilated area so that the slots are not blocked in any way. Avoid exposure to the sun, to other sources of heat or flames.
Do not place on top of other equipment.

CONNECTIONS:

Only carry out the recommended connections to avoid any possible damage.

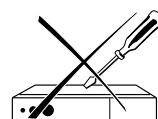


TV or VCR CONNECTION:

Switch the Receiver off before connecting or disconnecting it to a TV or VCR.
IF THIS IS NOT DONE, THE TV OR VCR COULD BE DAMAGED.

LOCATION:

The Receiver should be kept inside where it is protected against lightening, rain and direct sunlight.
Install the Receiver in horizontal position.



WARNING
RISK ELECTRICAL SHOCK
DO NOT OPEN

TO AVOID THE RISK OF AN ELECTRIC SHOCK, DO NOT TAKE THE COVER OFF.
THE RECEIVER CANNOT BE REPAIRED BY THE USER.
PLEASE CONSULT QUALIFIED PERSONNEL ONLY



This symbol indicates that there is the risk of an electric shock.



This symbol indicates that there are some important instructions for this particular product.

2.- General Information

Thank you for buying this hard-wearing DVB-T receiver.

This receiver has been created under strict quality control processes and is totally compatible with the current specifications.

Your new receiver will offer you a higher image and sound quality, panoramic images and a series of new features.

2.1.- Main features

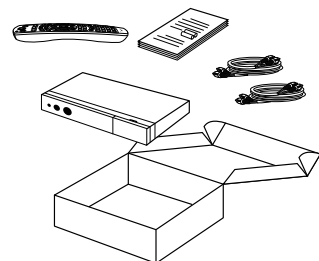
- Compatible with MPEG2 and MPEG4/H.264
- Prepared for USB PVR
- Makes possible to play MP3 and JPG files
- Time Shift Function
- Video Output – RGB; CVBS
- HDMI Output (576i, 576p, 720p and 1080i)
- Two USB ports
- IP Connection (software update and file distribution)
- Allows Channel Edition (Delete, Move, Lock, Skip and Favourites.
- Favourite Channel List
- Supports OSD Teletex
- Standard Subtitles and Teletex
- Programme Guide
- Access Control
- Automemorizes the last visualized channel.
- Return Function
- Timer Function
- Sleep Function
- Configurable VFD Display (name, number and “Stop and go”)
- Clock (time presentation in “standby”)
- Software update via USB or RS-232C
- SPDIF-Digital audio output
- 3 Games
- Editable Mosaic Function (2, 4, 6 or 9 programmes)
- Pause and Zoom Function

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2.2.- Contents

Check that the following components are included in the package:

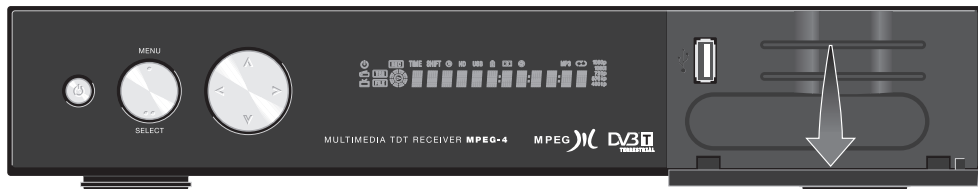
- 1 x DVB-T Receiver ref. 7143
- Instructions Manuals
- 1 x Remote Control
- 2 x “AAA” batteries
- 1 x A/V cable (3x RCA)
- 1 x component video cable (Y, Pb, Pr)



Manufactured according to Dolby Laboratories´ License. “Dolby” and the double-D logotype are registered trademarks of Dolby Laboratories.

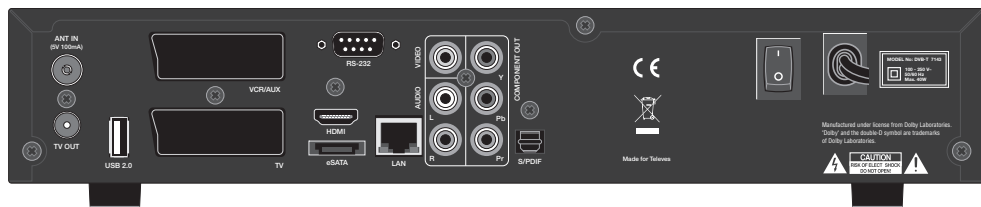
3.- Panel and Control Description

Front Panel



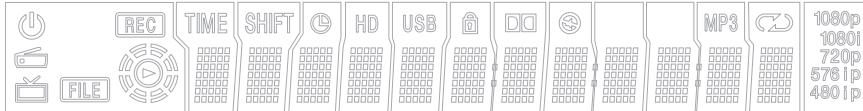
Key	Function
	Switch between normal and standby operating mode.
MENU	To activate and deactivate the main menu.
SELECT	Shows the channel list. Selects one element or confirms a selection on the menu.
	Selects the previous or next programme. Changes the cursor position on the menus.
	Turns the volume down/up. Modifies a value on the menus.
DISPLAY	Shows information about the selected programme. It also shows the time in standby mode.
USB	Connector for USB.

Rear Panel



Name	Function
ANT IN	Signal input of terrestrial antenna (power supply +5V/100 mA selectable by menu)
TV OUT	RF Signal Output to connect it to a TV or VCR.
USB 2.0	Connection to an external memory (Pen drive) or an external USB hard disk.
VCR/AUX	Audio/video input/output to connect other equipment through SCART.
TV	Video/Audio output to connect it to a TV via SCART.
SERIAL	Connection to low speed serial port.
HDMI	Interface for signal connection in high definition.
eSATA	Interface to connect an eSATA external disk.
LAN	Connector for connection to a local net.
VIDEO	Composite video output.
AUDIO L/R	Stereo and analog audio output.
Y, Pb, Pr	Component video output.
S/PDIF	Optical output of digital video.
I/O	General ON/OFF switch.

Front Display



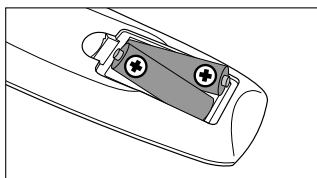
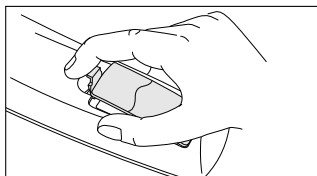
Display	Function
	Shows the receiver status (ON/OFF)
	Lights when a programme is being recorded.
TIME	Lights when the Time Shift Function is activated.
SHIFT	Lights when the Time Shift Function is activated.
	Lights in Standby mode when a Timer is programmed.
HD	Lights when the signal is HD.
USB	Lights when a USB device is connected.
	Indicates that the correct selected channel is locked.
	Lights when the audio of the selected programme is in Dolby format.
	Lights when the MUTE function is activated.
MP3	Lights when a MP3 player is connected.
	Lights when selecting the “Loop” option in the MP3 player.
	Lights when a radio programme is selected.
	Lights when a TV programme is selected.
	Indicates when the receiver is in mode “play a file from the list”.
	Lights when playing a multimedia or recorded file.
1080i	Indicates the video output resolution.

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3.1.- Remote Control



Key	Function
	Switches the receiver on and off.
TV/RAD	Switches between TV and Radio programmes.
MUTE	Eliminates the sound
TEXT	Shows the teletext contents (if they are transmitted).
SUBTITLE	Activates or deactivates the Subtitle Menu.
AUDIO	Shows the different audio languages that are available and the stereo-mono modes
MOSAIC	Shows a mosaic of 2, 4, 6 or 9 programmes.
SLEEP	Disconnects the receiver once the selected time has expired.
FREEZE	Stops the image on the screen. Press the key again to continue.
ZOOM	Enlarges a selected area from the image that is being visualized.
GUIDE	Shows the TV/Radio programme guide.
INFO	Shows information about the current programme. Press this key again for more details.
RECALL	Return to the Previous Channel
GROUP	To change the group of channels (general List or groups of Favourites).
MENU	Activates/Deactivates the main Menu.
EXIT	To exit the current menu and return to the previous one.
▲ VOL ▼	Turns the volume up/down.
▲ PAGE ▼	Moves one page forward or back when there are several pages available.
CH ▲ / CH ▼	Select the previous or the next programme. Move the cursor up or down on the menus.
VOL ◀ / VOL ▶	Turn the volume up or down. Modify a value on the menus.
OK	Shows the channel list. Runs the option selected on the menu or confirms the selected value.
FILE LIST	Shows the list of files that are available in external disks.
	Shows the play list (in the disk selected by default)
	Stops what is currently playing.
	Quick return in play mode (x2, x4, x8, x32).
	Stops the image in play mode.
	Moves forward quickly in play mode (x2, x4, x8, x32).
	Return to in real time play mode.
	Starts recording the selected programme.
	Moves forward slowly in play mode (1/2, 1/4).
	The red, green, yellow and blue keys have secondary functions that are not described here and that can appear in the different menus.



Key	Function
0 ... 9	Direct Input for numerical data (as the number of a programme to be watched).
V. FORMAT	Selects the video output resolution.
WIDE	Selects the TV format type between Pan Scan or Letter Box (4:3) and Full Screen or Pillar Box (16:9).

Notes:

- Point with the remote control directly at the receiver's sensor.
- Do not expose the remote control or the receiver to an intense source of light, such as, direct sunlight.
- Do not leave the control remote in an extremely wet or warm place.
- Do not spill water or place any wet element on the remote control. Normally batteries last approximately one year under normal USE conditions.

Notes:

The wrong use of batteries can cause corrosion and spillage of the internal liquid. Follow these instructions to use the remote control in a secure way:

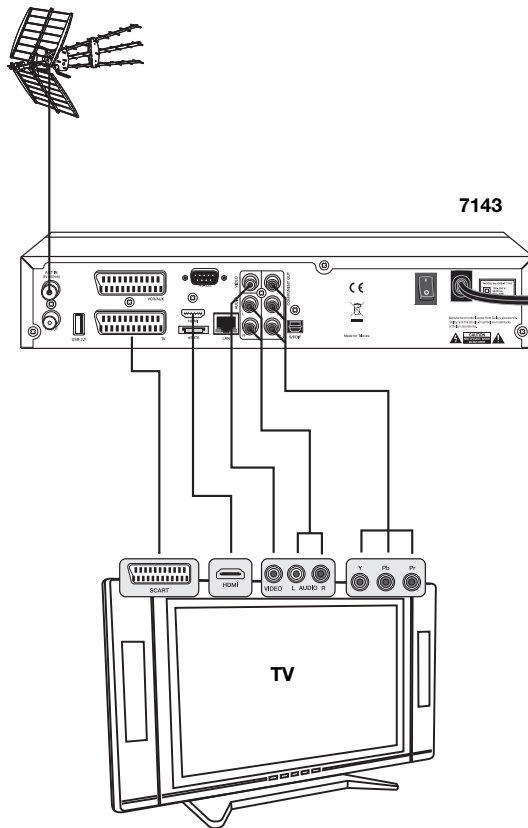
- Do not place the batteries in the wrong way. Make sure that the + and – poles of the batteries match up with the internal marks of the battery unit.
- Do not recharge, warm, open or short-circuit the batteries.
- Do not throw the batteries to fire.
- Do not leave discharged batteries inside the remote control.
- Do not use different types of batteries at the same time. Do not mix old batteries with new batteries.
- If the remote control is not going to be used during a long period of time, remove the batteries to avoid possible damages caused by corrosion.
- If the remote control does not work properly or the operating distance is very short, change the batteries for new ones.
- If an spillage of the batteries' liquid takes place, clean up carefully the battery unit and then insert new batteries.

4.- Equipment Installation

This section explains how to install the receiver to a TV or to other A/V equipments.
 Read the manuals provided with the equipment to install external equipment, such as, the antenna.
 To add any new equipment, read the corresponding part of the manual for its installation.

4.1.- Connection to a TV

- Connect the antenna signal to the ANT IN connector of the receiver.
- Connect the audio and the video between the receiver and the TV using an SCART cable, RCA cables or a HDMI connection.



Note: The component video output (YPbPr) is not available by default. It is necessary to activate on the “AV Configuration” Menu (See Section 7.6).

All cables used to connect the receiver will be shielded cables.

DO NOT PLUG IN the receiver to the electrical network until all the connections of the unit are finished.

5.- First Installation

Once you turn your receiver on, start with its configuration as indicated below:

- First of all a menu showing all the languages available for the OSD will appear.
 - Select the language you wish using the **CH ▲ / CH ▼** keys and press **OK** to confirm the selection.

- Then the menu “**A/V output settings**” will be shown. Configure your receiver according to the equipment or TV to which it is connected in order to obtain the best performance of the equipment.

To do so scroll the cursor through the options using the **CH ▲ / CH ▼** keys and select the value with the **VOL ◀ / VOL ▶** keys. You can also press **OK** on the option and select the element you wish in the popup menu using the **CH ▲ / CH ▼** keys and press **OK** to confirm.

- **SCART:** Select one of the options **CVBS** (YPbPr ON) or **RGB** (YPbPr OFF)*.
- **Screen format:** Select the screen format between **4:3** (Letter Box or Pan Scan) and **16:9** (Full Screen or Pillar-Box).
- **Video format:** Select the video output resolution between **1080i**, **720p**, **576p** or **576i**.
- **SPDIF:** Select the type of audio output between **Dolby Digital** or **PCM**.

* Whenever the **RGB** option is activated, the component video output (Y, Pb, Pr) will not be available.

- Press the **▲** key to continue.

- “**Time settings**” Menu will come up. This menu deals with the way in which the time will be shown on the receiver.

- **GMT Usage:** Active (ON) or deactivate (OFF) the use of the time system via GMT (Greenwich Meridian Time).
- **Local Offset:** Select the time zone in which you are located. Indicate whether you want to add (+) or reduce (-) to the GMT time the complementation time in fractions of one hour time.
- **Summer time:** When you activate this option (ON), one hour will be added up to the time shown by the receiver in order to adapt it to the local time.

Press the **▲** key to continue.

- The menu “**Channel search**” will be shown

- To start searching automatically, press the **▲** key or the **red** key on the four colour group.
- This process can take some time. Please, wait.
- If you want to delete any of the channels searched, mark it by pressing the **red** key on them and delete them pressing the **green** key.
- Once the search is finished, press the **EXIT** key to start watching your programmes.



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6.- Basic Functions

Now the basic operating functions of your receiver will be described.

6.1.- Change between TV and Radio channels

- While you are visualizing a TV channel, press **TV/RAD** on the remote control to switch between TV channels and Radio channels.
- Press again this key to return to the previous mode.



6.2.- Programme selection

- To select a programme, use the **▲ / ▼** keys on the front panel, the **CH ▲ / CH ▼** keys on the remote control or the numeric keyboard (0...9)..
- There is also another easy and visual way to change programmes. While you are watching a TV or Radio programme, press the **OK** key on the remote control. A window with the programme list will appear. Select the new programme from the list with the **CH ▲ / CH ▼** keys and press **OK**.
- You can move forward page by page on the programme list with the **▲ PAGE ▼** keys.
- Press the **red** key to alternate between the different ordering types: All, in alphabetical order, by Transponder, by codification type.
- You can search a channel by its name or by part of it. Press the **“i”** key for that. Press the **OK** key with the cursor situated on the “Sample” option, write the name of the programme on the popup keyboard and press **EXIT**. Move the cursor to the “Find next” option and press **OK**.



6.3.- Programme information

- Every time you change programmes, you will receive information about it during some seconds.
- You can see information about the programme at any time while you are visualizing it by pressing the **“i”** key on the remote control.
- If you press again this key while the information about the program is on the screen, further information about it will be provided and a brief summary of its contents will be shown.

Note: The EPG information is only available when it is provided by the programme.

- Press **EXIT** to close this window.



6.4.- Audio and volume control

■ **Volume Control**

- To turn the volume up or down, use the **VOL ◀ / VOL ▶** keys on the remote control or **< / >** on the front panel.

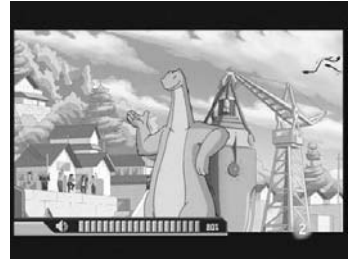
Note: The volume can also be controlled through the volume of your TV.

■ **Mute**

- To eliminate the sound, press the **MUTE** key on the remote control. To regain the sound, press this key again.

■ **Audio control**

- Press the **AUDIO** key to activate the audio menu.
- You can select the audio Mode (Stereo, Left or Right), the audio track (it depends on the audios included in the transmission) or the audio level (loud, middle or low).
- Select one of the options using the **CH ▲ / CH ▼** keys. To modify a value, press the **VOL ▶** key and select it using the **CH ▲ / CH ▼** keys. Press **OK** to confirm.
- The current audio configuration will be shown on the channel information window.



6.5.- Favourites List

- To access the lists of favourite programmes, press the **GROUP** key on the remote control.
- Select one of the lists with the **CH ▲ / CH ▼** keys and press **OK**.
- The Favourites lists will only show the channels that are included in each list. You can select the channels following the same steps than in the general list.
- To exit the Favourites list and access the general list, you must press **GROUP** and select “All Channels”.

The method used to create the lists of favourite programmes is explained in section 8.1.- *Favourites*.



6.6.- Teletext

- Press the **TEXT** key on the remote control to activate the Teletext.
- The teletext services will be visualized as usually.
- Even if your TV does not have Teletext Decoder, you will be able to visualize it on the screen, since the receiver generates it automatically.
- The receiver’s remote control has colour keys which make the access to teletext pages easier and faster.
- If you are using the TimeShift function or playing a programme previously recorded onto the hard disk, the Teletext will not be available.
- To exit Teletext, press **TEXT** or **EXIT** key.



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6.7.- Subtitles

- Press the **SUBTITLE** key on the remote control to activate the subtitle menu.
- If the programme does not have subtitles, a message will appear stating "NO SUBTITLE".
- The subtitle services will be visualized on the bottom of the screen.
- Select the way in which the subtitles will be visualized between **OFF** (no subtitles), **English (DVB)** (standard) and **English** (teletext format).

Note: Not all providers provide with this type of information.



6.8.- Zoom

This function allows you to enlarge an area selected from the image that you are watching.

- You can enlarge fixed images (press **FREEZE** to stop the image) or video in motion.
- Press the **ZOOM** key on the remote control.
- A frame will appear on the screen. Move this frame using the **CH ▲ / CH ▼** and **VOL ◀ / VOL ▶** keys to the area you want to enlarge.
- Press continuously the **OK** key to enlarge the selected area more and more.

Press the **ZOOM** key to exit.

Note: Notice that the more the area is enlarged, the worst the quality will be.



6.9.- Mosaic

This function allows you to visualize an image mosaic (group of programmes) constituted by 2, 4, 6 or 9 small screens.

- Press the **MOSAIC** key.
- Scroll through the "2", "4", "6", and "9" options using the **CH ▲ / CH ▼** keys. Press **OK** on the selected option.
- Once the mosaic is shown on the screen, you can chose one of the programmes using the **CH ▲ / CH ▼** and **VOL ◀ / VOL ▶** keys.
- Press the **OK** key to start watching the selected channel.
- Press the **GROUP** key to see the channel list.
- To return to normal visualizing mode, press the **EXIT** key.

Note: This function does not allow to visualize two programmes at the same time.



6.10.- Programme Guide

The receiver provides the “Program Guide” function, so that the user can have access to the TV Guide (or radio guide), which will show information about the current or next programme in the different channels, such as, name, start time, end time, a brief summary, ...

- To see the guide information, press **GUIDE** on the remote control while visualizing a programme.
- The guide corresponding to that programme will appear on the screen.
- There are two ways to show this guide: Day Mode and Time Mode. To change between them, press the **green** key.

■ Day Mode

- It is the mode shown by default.
- In this mode the window is divided into four groups. The image will be shown in a small screen on the upper left part of the screen. Below it, the list of available memes and on the right the start time and the name of the different programmes broadcasted during the whole day corresponding to the selected channel. The information about the selected programme will be shown in the upper right part. If the information takes more than one page, press the **blue** key to turn the page.
- Press the **CH ▲ / CH ▼** keys to scroll up and down through the channel list (left) and through the different programmes of the day (right). To change from the channel list to the programme list, use the **VOL ◀ / VOL ▶** keys.
- Press the **yellow** key to change the day of the information provided.
- Press the **red** key on one of the programmes from the list to create automatically a new timer with that programme. The Timer Menu will be shown on the screen showing the data corresponding to the event. Activate the timer and press the **EXIT** key to save and return to the guide. For further information about how to programme an event, see Section 7.2.- *Timer Manager*.

■ Time Mode

- Once the guide is activated, you will change to Time Mode by pressing the **green** key.
- The difference between the Time Mode and the Day Mode is that the first one shows the whole day divided into time slots instead of the day of the week. The Time Mode works in the same way than the Day mode.
- To return to Day Mode, press the **green** key.

Press the **EXIT** key to exit the guide.

NOTES:

The information contained in the guide is provided by the service provider, so it can be unavailable sometimes.

If the selected programme does not provide information for the guide, the indication “No Information” will appear.

*To programme the recording of a particular event, press the **red** key on the event. You will access directly to the Timer Menu where you will have to activate the “Record” option.*



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7.- System settings

7.1.- Time settings

■ **GMT Usage** (Greenwich Meridian Time)

The receiver has a clock that works automatically with the signal received by the antenna, where the provider sends the GMT time.

This time varies according to the country selected in the “Offset local” section.

- Activate (ON) or deactivate (OFF) the use of the time system via GMT using the **VOL** ◀ / **VOL** ▶ keys.

■ **Local Offset**

- Select the time zone where you are located. Indicate whether you would like to add (+) or reduce (-) to the GMT time the complementation time by fractions of one hour.

■ **Current Date**

If the option “GMT Use” is not activated (OFF), you can modify the current date manually.

- Press the **OK** key to activate a calendar where you can select the current month/year using the ▲ / ▼ keys and move from one day of the month to the others with the **VOL** ◀ / **VOL** ▶ and **CH** ▲ / **CH** ▼ keys. Finally, press **OK** to confirm.

■ **Current Time**

- Insert the current time using the numeric keyboard.

■ **Summer Time**

When you activate this option (ON), one hour will be added to the time shown by the receiver in order to adapt it to the local time.

■ **Wake Up Mode**

This function allows to turn the receiver on at a particular time.

- Indicate how often you are going to use this option: Off, Once, Daily or from Monday to Friday.

■ **Wake Up Time**

- Insert the time at which the receiver must be turned on using the numeric keyboard.

■ **Wake Up Channel**

- Press the **OK** key to activate the programme list. Select the one that will automatically appear when turning on the unit on and press **OK** to confirm.

■ **Sleep Mode**

This function allows to turn the receiver off at a particular time.

- Indicate how often you are going to use this option: Off, Only once, Daily or from Monday to Friday.

■ **Sleep Time**

- Insert the time at which the receiver must be turned off using the numeric keyboard.



7.2.- Timer Manager

With this menu you can make the receiver turn on or record at a programmed time.
 You can programme different events, which can have different running times (Off, Once, Daily, Weekly...).

- If no events are created, the list will be empty.

■ **Create/add an event**

- To add a new event, press the **red** key.
- It will be activated by default in Timer n°1. If you want to select another one, press **EXIT** (the cursor turns orange) and scroll through the list with the **CH ▲ / CH ▼** keys. Press **OK** to confirm.

State: Indicate how often an event is going to be run: Off, Once, Daily, from Monday to Frinday or Weekly.

Date: Press the **OK** key to activate a calendar where you can select the current month/year using the **▲ / ▼** keys and move from one day of the month to the others with the **VOL ◀ / VOL ▶** and **CH ▲ / CH ▼** keys. Finally, press **OK** to confirm.

Start Time: Insert the time at which it must be turned on with the numeric keyboard.

End Time: Insert the time at which it must be turned off with the numeric keyboard.

Channel: Press the **OK** key to activate the programme list, select the one that will automatically appear when turning on the unit and press **OK** to confirm.

Record: Indicate if you want to record the event on an external hard disk or pen drive as well (if a disk is not connected, the option will not be activated).

- Press the **EXIT** key to save the modifications and confirm them. Press again the **EXIT** key to exit.

■ **Edit an event**

- Press the **OK** key on an existing event in order to edit it.
- Press the **EXIT** key once the desired parameters have been modified. Confirm the value modifications on the in the popup window.

■ **Delete an event**

- To delete an existing event, place the cursor on it, press the **yellow** key and confirm the choice on the popup menu.

Note: You cannot create events if their start time or date is previous to the current date or time.



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7.3.- Parental Control

This menu allows you to lock the receiver to avoid unwanted manipulations, lock unappropriated channels or change the password.

You will have to insert your password to have access to this menu.

By default, the password is **0 0 0 0**.

■ **Receiver lock**

- Lock the receiver by selecting the “ON” option with the **VOL ◀ / VOL ▶** keys. Every time you turn on the receiver, you will have to insert your password. Select “OFF” to unlock it.

■ **Install lock**

- Lock the “Installation” menu by selecting the “ON” option using the **VOL ◀ / VOL ▶** keys. Every time you access the “Installation” menu, you will have to insert your password. Select “OFF” to unlock it.

■ **Channel lock**

- Lock the “Channel Manager” menu by selecting the “ON” option using the **VOL ◀ / VOL ▶** keys. Every time you access the “Channel Manager” menu, you will have to insert your password. Select “OFF” to unlock it.

■ **Lock Channel Confirmation**

- If you select the “ON” option with the **VOL ◀ / VOL ▶** keys, the user will be required to insert the password every time he tries to access a locked channel. Select OFF to unlock this option.

■ **Age Limit**

- If you activate this option and when a programme is broadcasted with information about age classification, the receiver will ask you to insert your password if the programme exceeds the selected limit. The options are: Free, 8 above, 12 above, 15 above and 18 above years.

■ **New Password**

- Insert a new password using the numeric keyboard to change it.

■ **Verify Password**

- Insert again the new password in order to verify that it is correct.

Note: Do not forget your new password. You will not be able to access to the locked programmes, receiver and menus without it.

Finally, press **EXIT** to exit the menu. Confirm the changes made on the popup menu.



7.4.- OSD Settings

This Menu allows you to modify the transparency parameters of the channels on screen and how long the banner of the programme information or of the volume level will remain visible.

■ **Transparency**

- Select a transparency level for the menus between 0 and 95% using the **VOL ◀ / VOL ▶** keys.

■ **Information Timeout**

- Use the **VOL ◀ / VOL ▶** keys to select how long the information “banner” about the programme that it is being visualized will remain visible.

■ **Volume Timeout**

- Use the **VOL ◀ / VOL ▶** keys to select how long the information “banner” about the selected volume level will remain visible.



7.5.- Language Settings

This menu allows you to select the language in which the menus will be shown on the screen, the audio language by default and the language of the subtitles.

■ **Menu Language**

- Select the language in which the menus will be shown on the screen by pressing the **MENU** key. Use the **VOL ◀ / VOL ▶** keys for that or press **OK** to activate a popup list, select the language using the **CH ▲ / CH ▼** keys and press **OK** to confirm.

■ **Audio Language**

- Select the language in which the programmes will be listened to. Use the **VOL ◀ / VOL ▶** keys for that or press **OK** to activate a popup list, select the language using the **CH ▲ / CH ▼** keys and press **OK** to confirm.

***Note:** If the programme does not have the selected audio, the first audio transferred by default will be activated.*

■ **Subtitle language**

- Select the language in which the subtitles will be shown. Use the **VOL ◀ / VOL ▶** keys for that or press **OK** to activate a popup list, select the language using the **CH ▲ / CH ▼** keys and press **OK** to confirm.

***Note:** If the programme does not have the selected language for the subtitles, the first language transferred by default will be activated.*



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7.6.- A/V output Settings

This menu allows you to adjust the A/V signal outputs to the peripheral equipment connected to the receiver.

■ **SCART**

- Select the video output mode between **CVBS** and **RGB** using the **VOL ◀ / VOL ▶** keys or press **OK** to activate a popup list, select the mode with the **CH ▲ / CH ▼** keys and press **OK** to confirm. If you select the CVBS mode, the format YPbPr will be also activated.

■ **Screen Format**

- Select the screen format between **4:3** or **16:9** using the **VOL ◀ / VOL ▶** keys or press **OK** to activate a popup list, select the format with the **CH ▲ / CH ▼** keys and press **OK** to confirm.
 - You can select the following modes within each format **Full Screen** or **Pillar-Box** (16:9) and **Pan Scan** or **Letter Box** (4:3).

■ **Display Format**

- You can select the following modes within each format **Full Screen** or **Pillar-Box** (in 16:9) and **Pan Scan** or **Letter Box** (in 4:3).

■ **Video Format**

- Select the video output resolution using the **VOL ◀ / VOL ▶** keys or press **OK** to activate a popup list, select the format with the **CH ▲ / CH ▼** keys and press **OK** to confirm. The values available are **576i**, **576p**, **720p** and **1080i**.

■ **SPDIF**

- Select the type of audio output between **Dolby Digital** and **PCM** using the **VOL ◀ / VOL ▶** keys or press **OK** to activate a popup list, select the type with the **CH ▲ / CH ▼** keys and press **OK** to confirm.



7.7.- Front Display Settings

This menu allows you to indicate how information must be shown on the front display of the receiver.

■ **Text Moving**

- Select “ON” if you want the text on the front display to have a movement effect or “OFF” to keep the text fixed. Use the **VOL ◀ / VOL ▶** keys for that.

■ **Channel Number**

- Select “ON” if you want the channel number of the front display to remain visible or “OFF” if you want only the channel number to be shown. Use the **VOL ◀ / VOL ▶** keys for that.



7.8.- IP Settings

This menu allows you to connect the receiver to a remote PC via Internet in order to update the software.
Your PC must have an application for the connection.

■ **DHCP Use**

- Select “ON” using the **VOL** ◀ / **VOL** ▶ keys if you want the receiver to self assign automatically an IP address.
- Press the **red** key to start with the net scanning (this process can take some time).
- Press the **blue** key.
- Insert the IP address of the PC to which it is going to be connected on the popup menu and using the numeric keyboard. Pres **OK** to confirm.
- Select the file with the software (.stb), press **OK**. Wait until the file has been completely downloaded.

- In case you prefer to assign an IP address manually, select “OFF” in this option.

■ **IP Address**

- Place the cursor on this option and insert the **IP Address** assigned to the receiver using the numeric keyboard.

■ **Subnet Mask**

- Place the cursor on this option and insert the value of the **subnet mask** assigned to the receiver using the numeric keyboard.

■ **Gateway**

- Place the cursor on this option and insert the value of the **gateway** assigned to the receiver using the numeric keyboard.

■ **DNS**

- Place the cursor on this option and insert the value for the **DNS** assigned to the receiver using the numeric keyboard.



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8.- Channel Manager

8.1.- Set Favorites

■ Create Favourites List

When you enter the “Favourites” menu, a group of 16 lists of favourite channels (Fav 0, ..., Fav 15) will be shown.

- Select one of the lists using the **CH ▲ / CH ▼** keys and press **OK** to accept.
- You can personalize the name of each list (cinema, news, etc.) pressing the **red** key on the name. Insert the new name using on pop-up keyboard and using the **CH ▲ / CH ▼** and **VOL ◀ / VOL ▶** keys. Once you have finished, press **EXIT** to save the new name and return to the previous menu.
- The selected list or group will be indicated on the left side of the general list.
- Place the cursor on the channel you want to mark as favourite and press the **OK** key. The channel will be marked with the “♥” symbol to indicate that it is a favourite channel. You can mark as many channels as you want.
- To delete the favourite mark, place again the cursor on the channel and press **OK**. To delete the mark of all the channels at the same time press the **yellow** key.
- To select another group or favourites list, press the **blue** key.
- The channels marked as favourites in this menu will be the channels that appear when you press the **GROUP** key in normal operating mode (watching a TV programme).

■ Sorting

- Press the **red** key to put the channel list in order. You can use different ordering types: All, in alphabetical order, by Transponder, by codification type.
- Each time you press the **red** key the list will be shown in one of these types.

■ Edit

- Press the **green** key on the name of a channel from the list to edit and modify it.
- Press **OK** on the channel’s name. Insert the new name on the pop-up keyboard and using the **CH ▲ / CH ▼** and **VOL ◀ / VOL ▶** keys. Once you have finished, press **EXIT** to save the new name and return to the previous menu.
- The VPID, APID and PPID values are important to get an optimum reception. Do not modify them if you are not qualified for that.

You can search a channel by its name or by part of it. Press the “i”. key to do so. Press the **OK** key with the cursor situated on the “Token” option and insert the name in the pop-up keyboard. Move the cursor to the “Find next” option and press **OK**.

Note: If the “channel lock” option is activated in the Parental Control, you must insert your password to have access to this menu.



8.2.- Lock Channels

■ **Lock**

- Place the cursor on the channel you want to lock and press the **OK** key. The channel will be marked with the “**🔒**” symbol to indicate that it is locked. You can mark as many channels as you want.
- To delete the locked mark, place again the cursor on the channel and press **OK**. To delete the mark of all the channels at the same time press the **yellow** key.
- The option “channel lock confirmation” from the *Parental Lock* menu must be activated (ON) if you want the channel lock to work.

■ **Sorting**

See section 8.1-Favourites.

■ **Edit**

See section 8.1-Favourites.

Note: If the “channel lock” option is activated in the Parental Control, you must insert your password to have access to this menu.



8.3.- Move channels

■ **Move**

- Place the cursor on the channel you want to move and press the **OK** key. The channel will be marked with the “**+**” symbol to indicate that it is going to be moved. You can mark as many channels as you want.
- To eliminate this mark, place again the cursor on the channel and press **OK**. To eliminate the mark of all the channels at the same time press the **yellow** key.
- Press the **blue** key, then place the cursor on the new location and press the **OK** key. The selected channels will be moved to the new location.

■ **Sorting**

See section 8.1-Favourites.

■ **Edit**

See section 8.1-Favourites.

Note: If the “channel lock” option is activated in the Parental Control, you must insert your password to have access to this menu.



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8.4.- Delete Channels

■ Delete

- Place the cursor on the channel you want to delete and press the **OK** key. The channel will be marked with the “X” symbol to indicate that it is going to be deleted. You can mark as many channels as you want.
- To eliminate this mark, place again the cursor on the channel and press **OK**. To delete the mark of all the channels at the same time press the **yellow** key.
- Press **EXIT** to delete the selected channels.
- Press the **blue** key to delete all the channels. You must insert your password and confirm it in the pop-up window. All channels from the general list will be deleted.

■ Sorting

See section 8.1-Favourites.

■ Edit

See section 8.1-Favourites.

Note: If the “channel lock” option is activated in the Parental Control, you must insert your password to have access to this menu.



8.5.- Skip channels

■ Skip

- Place the cursor on the channel you want to skip and press the **OK** key. The channel will be marked with the “→” symbol to indicate that it is going to be skipped. You can mark as many channels as you want.
- To delete this mark, place again the cursor on the channel and press **OK**. To delete the mark of all the channels at the same time press the **yellow** key.
- In normal operating mode (watching a TV programme) the programmes marked to be skipped will be omitted when the **CH ▲ / CH ▼** keys are being moved.

■ Sorting

See section 8.1-Favourites.

■ Edit

See section 8.1-Favourites.

Note: If the “channel lock” option is activated in the Parental Control, you must insert your password to have access to this menu.



9.- Installation

9.1.- Channel Search

This menu allows you to update the channel list in case the n° of transponders increases.

■ **Scan Mode**

- Select the scan mode using the **VOL ◀ / VOL ▶** keys or press **OK** to activate a pop-art list, select the mode using the **CH ▲ / CH ▼** keys and press **OK** to confirm.
- The options are:
 - Auto Scan:** Searches automatically all TV and radio channels.
 - Manual Scan:** Selective search in a particular channel.
 - PID Scan:** Searches a particular channel by the PID data.

■ **Frecuency**

- Select the channel or frecuency for the manual scanning between channel **21** and **69** using the **VOL ◀ / VOL ▶** keys or press **OK** to activate a pop-art list, select the channel using the **CH ▲ / CH ▼** keys and press **OK** to confirm.

Note: You can also insert the frecuency value directly using the numeric keyboard.

■ **Bandwidth**

- Select the bandwidth for the manual scanning between **7** or **8MHz** using the **VOL ◀ / VOL ▶** keys or press **OK** to activate a pop-art list, select the value using the **CH ▲ / CH ▼** keys and press **OK** to confirm.

■ **Type of search**

- Select the type of search using the **VOL ◀ / VOL ▶** keys or press **OK** to activate a pop-art list, select the mode using the **CH ▲ / CH ▼** keys and press **OK** to confirm. The options available are: **All channels**, **Only FTA** (only free) or **Only TV**.

■ **Network Search**

- Indicate whether you want a net search or not by activating (ON) or deactivating (OFF) this option using the **VOL ◀ / VOL ▶** keys.

■ **Antenna Supply 5V**

- This option allows you to supply a possible amplifier in the antenna with 5V/100mA through the coaxial cable itself.
- Activate (ON) or deactivate (OFF) this supply using the **VOL ◀ / VOL ▶** keys.

Note: If your antenna does not have amplifier, you must deactivate (OFF) this option to avoid damages in the receiver.

Finally press the **red** key to start searching.



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9.2.- Data Transfer

This menu allows you to update the firmware of a second receiver or copy the channel list on your own receiver.

■ Firmware

- Press **OK** on this option.
- The receiver will copy its own firmware.
- Connect the second receiver using a NULL-Modem cable and turn it on.
- The data transfer to the second receiver will start.
- Do not turn off or disconnect the receivers during the transfer.

- Once the transfer has finished, press the **EXIT** key to exit the menu.

■ Channel Data

- Press **OK** on this option.
- Connect the second receiver using a NULL-Modem cable and turn it on.
- The data transfer to the second receiver will start.
- Do not turn off or disconnect the receivers during the transfer.

- Once the transfer has finished, press the **EXIT** key to exit the menu.



9.3.- Data reset

This menu allows you to delete all the channels and return the receiver to its initial status (values by default).

■ **Delete Radio Channels**

- Press **OK** on this option.
- Confirm the selection on the pop-up menu.
- All radio channels will be deleted .

■ **Delete Scrambled Channels**

- Press **OK** on this option.
- Confirm the selection on the pop-up menu.
- All the codified channels will be deleted.

■ **Delete All Channels**

- Press **OK** on this option.
- Confirm the selection on the pop-up menu.
- All the channels of the receiver will be deleted.

■ **Factory Set**

- Press **OK** on this option.
- Confirm the selection on the pop-up menu.

***Note:** With this operation all previous data and configurations will disappear.*



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9.4.- System information

- This option shows a window with information about the receiver, such as, SW version, HW version, etc.
- Press **EXIT** to exit.



10.- Utils

10.1.- Calendar

- Press **OK** on the “Calendar” option of the “Utils” menu to activate a calendar on the screen.
- The current day will be particularly marked.
- You can select the current month/year using the **▲** / **▼** keys and move from one day of the month to the others using the **VOL ◀** / **VOL ▶** keys and the **CH ▲** / **CH ▼** keys. Press **OK** to confirm.
- Press **EXIT** to exit the calendar.



10.2.- Calculator

- Press **OK** on the “Calculator” option of the “Utils” menu to activate a calculator on the screen.
- Press the **red** key to choose between Hexadecimal or Decimal calculation.
- Insert the numbers to be calculated by selecting the figures with the **VOL ◀** / **VOL ▶** keys and the **CH ▲** / **CH ▼** keys. Press **OK** to fix the number or directly with the numeric keyboard on the remote control.
- Select the type of operation to be done and the result pressing **OK**.
- Press **EXIT** to exit the calculator.



10.3.- MP3

- This option will only be available if there is an external disk with MP3 files connected to the unit.**
- Press **OK** on the “MP3” option of the “Utils” menu to activate the MP3 player.
 - Using the **VOL ◀** / **VOL ▶** keys you can select the actions to be carried out, such as, Play, Stop, Pause, Forward, Fast Back, Activate file list, Show file information, the way in which the file must be played or Mute.
 - Select the action to be done and press **OK**.
 - **LIST**, shows a list with the files contained in the selected volume.
 - If there is more than one disk or volume connected to the receiver, press the **yellow** key to show the list and select any of them pressing **OK** on it.
 - Press **EXIT** to exit the player.



10.4.- JPG

This option will be only available if there is an external disk with JPG files connected to the unit.

- Press **OK** on the “JPG” option of the “Utils” menu to activate the image viewer.
- Select the directory where the files are located and press **OK**. If there is more than one disk connected, select the disk first of all.
- Select an image using the **CH ▲ / CH ▼** keys and press the **OK** key to visualize it.
- Press the **green** key to visualize the images in a continuous way. The interval between the images lasts **3** seconds. You can modify this length and set intervals of **5** or **10** seconds pressing the **red** key.
- If there is more than one disk or volume connected to the receiver, press the **yellow** key to show the list and select any of them pressing **OK** on it.

- Press **EXIT** to exit the player.

Note: if the image is too heavy, the image loading can last longer than the interval selected.



10.5.- Download

This option will be only available if there is an external disk connected to the unit.

- Press **OK** on the “Download” option of the “Utils” menu to activate the file list.
- Select the directory where the files with the software you want to download are located and press **OK**. If there is more than one disk connected, select the disk first of all.
- Select the file using the **CH ▲ / CH ▼** keys and press the **OK** key to run it.

Note: Do not disconnect the receiver during the software update.

- If there is more than one disk or volume connected to the receiver, press the **yellow** key to show the list and select any of them pressing **OK** on it.

- Press the **red** key to upload to the disk a file with the current channels of the receiver.
- To download it to another receiver follow the spets previously explained.

- Press **EXIT** to exit the download menu.



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10.6.- Disk manager

This option will be only available if there is an external disk connected to the unit.

This menu allows you to manage and check that the disks connected to the receiver work properly.

■ Default Disk

- Indicate which one will be the disk by default, that is, the disk you will always access in the first instance. The receiver always identifies the first disk detected as **volume0** and the second disk detected as **volume1**, regardless of the USB port.
- If there is more than one disk connected, select one using the **VOL ◀** / **VOL ▶** keys.

■ Disk information

- If there is more than one disk connected, select one using the **VOL ◀** / **VOL ▶** keys.
- Press the **red** key to see the data information, such as: Total Size, Used Size and Free Size.

■ Check Disk

- If there is more than one disk connected, select one using the **VOL ◀** / **VOL ▶** keys.
- Press the **red** key to check the disk.

■ Format Disk

- If there is more than one disk connected, select one using the **VOL ◀** / **VOL ▶** keys.
- Press the **red** key to format the disk.

Note: Do not disconnect the disk during this process.

Note: If you format the disk, you will lose all the information contained on it.



11.- Games

The Game Menu is shown on the image.

There are three games:

- **Tetris**
- **Sokoban**
- **Snake**

- Select one of the available games using the **CH ▲** / **CH ▼** keys. Press **OK** to accept.

- To play, follow the instructions shown on the screen.

- Press **EXIT** to exit the game at any time.



12.- Record/Play

This receiver allows you to record a programme in two different ways: one in real time and another using the “Timer” option.

To make this function available, there must be an external disk or a pen drive (memory stick) with FAT 32 format and a capacity higher than 2 GB.

When you connect a disk or pen drive to the receiver, the message “USB Unit inserted (0)” will appear on screen. However, you can only record or access files located in the disk once the “PVR Ready” message has appeared.

■ Recording in Real Time

- Press the **●** key to record the programme you are watching. If you press again this key, you can set the recording length (up to a maximum of 24 Hrs.) and press **OK** to confirm.
- During the recording time you can use the **VOL ◀ / VOL ▶** keys to adjust the time bar in order to search certain scenes. The programme recording will continue in a normal way.
- If you press the **→** key you will return to Recording In Real Time.
- Press the **■** key to stop recording permanently. A message will appear on the screen where you must confirm that you want to stop recording. Select YES or NO to do so.

Notes:

- You cannot record more than one programme at the same time. However, you can watch another programme that belongs to the same multiplex.
- Once the recording has started and if it is not stopped, it will continue automatically during 24 hours or until the disk's capacity is full.

■ Recording with Timer/Guide

- There are two ways to programme a recording: using the Guide's information or directly with the Timer option.
- See Section 7.2.- *Timer Manager* to get information about how to create events by indicating the recording start time, end time, programme, etc.

Note: When a programme is being recorded, the subtitles and the teletext will not be available.



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■ **Play**

Press the **FILE LIST** key to show the list of recorded programmes.

The list can be shown as a list or as a directory. Select one of these two modes by pressing the **green** key.

- Press the **yellow** key to put the recorded programmes in order by length or name.
- Select one of the recorded programmes from the list using the **CH ▲ / CH ▼** keys and press **OK** to play it.
- When a programme is being played, the **◀◀, ▶▶, ▶, ||** keys can be used to move forward or back in the time bar, move forward slowly, make a pause, etc.
- Press the **“i”** key to activate the play function information window. Press again the **“i”** key while this window remains visible. Now it will appear an option that allows you to mark the important scenes in the time bar.

Marker (Favourites)

- Press the **red** key to add a mark to the scene you want to watch later. You can add more than one marker in the same way.
- Press the **green** key to watch the marked scene while the information window is visible. The cursor will place itself in the previous position and the scene will start to be played. If you press again the green key, it will move immediately to the previous mark. If you press the **yellow** key, it will move to the next marks.
- You can move forward or back manually using the **VOL ◀ / VOL ▶** keys.
- Press the **■** key to stop playing at any time.



12.1.- Time Shift Function

Option available if there is an external disk connected to the unit.

Timeshift is the time that passes between the video in real time and the video recorded in the hard disk.

- Press the **||** key while you are watching a TV programme. The image will be frozen on the screen.
- Press the **▶** key to continue watching the programme starting at same point where you had stopped. Use the **VOL ◀ / VOL ▶** keys if you want to adjust the time bar to search certain scenes.
- If you press the **→** key you will return to In Real Time Play Function.
- Press the **■** key to exit the Timeshift function and return to In Real Time Broadcast.

Note: You can change programmes (within the same multiplex) while the TimeShift function is being run, but you must return to the initial programme to have access to the recording.

The maximum time assigned to this function is 30 minutes.

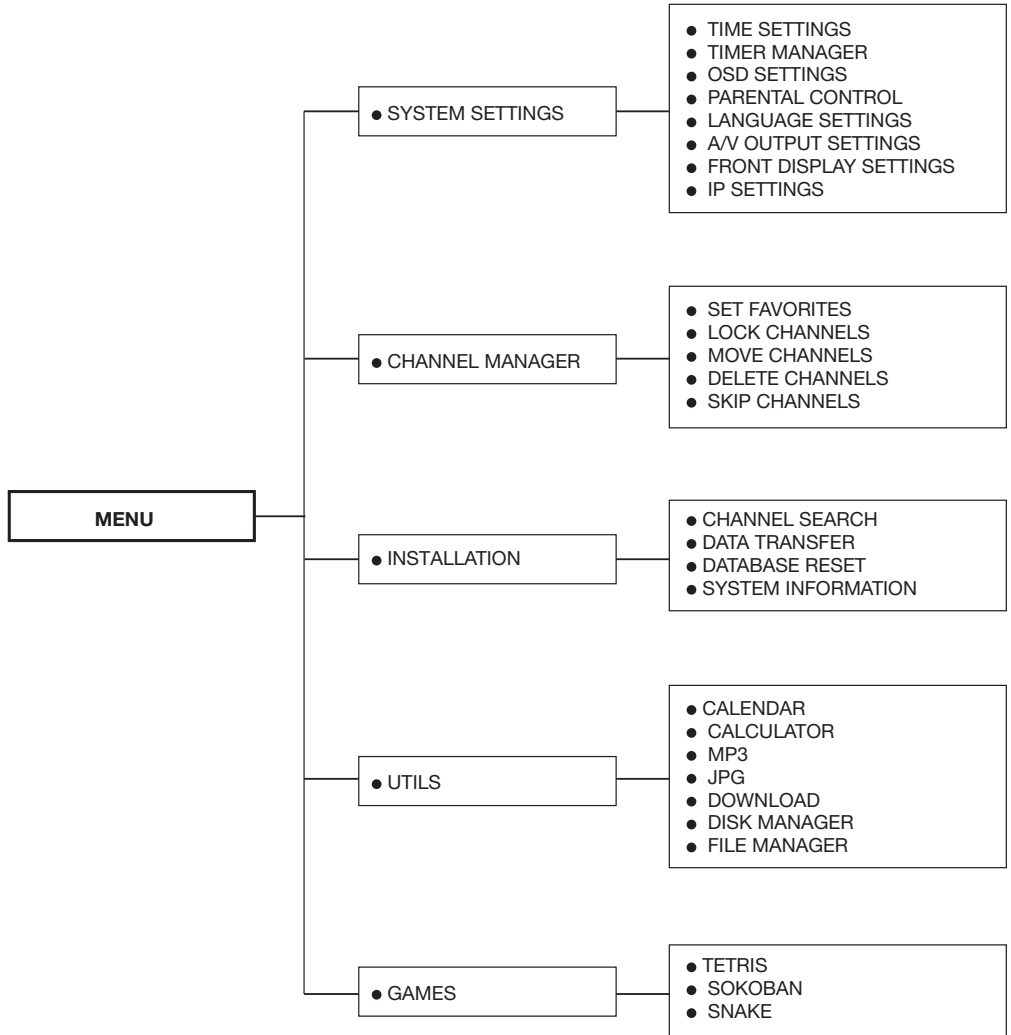


Terminological Glossary

Now the meaning of some terms and abbreviations used in this User's Guide will be explained.

- **DVB:** Digital Video Broadcasting.
Group of different International Organizations and Companies aimed at establishing international standards for the development of the Digital Television.
- **EPG:** Electronic Programme Guide (Guía Electrónica de Programas).
Guide that offers a list with the events that will be broadcasted by each programme, their broadcasting time and a description of their contents.
- **Letterbox:** A way to show on 4:3 televisions programmes broadcasted with 16:9 format. In this case two black bands will appear on the upper and lower part of the screen to create a window with this format.
- **MPEG4:** Group of digital audio/video compression standards used by the DVB.
- **OSD:** On Screen Display.
System of Menus on the screen.
- **Digital:** Sound converted into numeric values. You must use the DIGITAL AUDIO OUT COAXIAL or OPTICAL to have digital sound. This connectors send the sound through several channels, instead of through only two as in the analog system.
- **JPEG:** Joint Picture Expert Group
System of photographic data compression that makes possible a high compression with scarce loss of quality.
- **MP3:** File format with an audio data compression system.
- **PCM:** Pulse Code Modulation
This system turns the analog signal into digital signal so that it can be treated later. This conversion is carried out without compressing data.
- **HDMI:** High Definition Multimedia Interface.
High definition Multimedia Interface that makes possible to use standard, improved or high definition video, as well as multichannel digital audio just in one cable.

Menu Structure



Technical Specifications



System capacity	Full DVB compatible
Tuner and decoder	
Input connector	IEC 169-2, female part
Output loop-through	IEC 169-2, male
Frequency range	470-862 MHz
Input impedance	75 Ohm
Bandwidth	7,8 MHz (-3dB) SW interchang.
Wave form	COFDM
Carrier Mode	2K & 8K hierarchical/ non hierarchical
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/4, 1/8, 1/16, 1/32
System resource	
Processor	32 bit (266 MHz)
DDR SDRAM	32 MByte x 4
Flash	8 MByte
Eeprom	256 Kbit
Video Decoder	
MPEG 2	MPEG-2, MPEG-4, H.264
Data rate	higher than 15M Mbits/s
Resolution	576i, 576p, 720p, 1080i
Video Format	PAL
Image Format	4:3, 16:9
Teletext	DVB compatible
MPEG Audio	
Type	MPEG-1 Layer 1, 2
Sampling Rate	Mono, Joint Stereo, Stereo 32, 44.1 and 48 KHz
Data	
Connector	9 pines D-sub male, max 115 Kbps
Remote Control	
Operating conditions	more than 7 meters
USB	DC 5V max. 500mA
Connectors	
TV SCART	Video Output (RGB, CVBS) RGB Output Loop Audio Output (L, R)
VCR SCART	Video Output (CVBS, RGB) Video Input (CVBS, RGB) Audio Output (L, R)
Video	1 x RCA cinch
Audio L/R	2 x RCA cinch
Components (Y/Pb/Pr)	3 x RCA cinch
Data	9 Pin D-SUB
ANT signal Input/Output	CEI 169-2
S/PDIF	Optical fiber
HDMI	Video/Audio Digital Output
Power Supply	
Input voltage	100 – 250V~, 50/60 Hz
Power consumption	40 W Max.
Physical Specifications	
Size (L x H x W)	335 mm x 69 mm x 252 mm
Weight	3 kg

Guarantee

Televes S.A. offers a two year guarantee, beginning from the date of purchase for countries in the EU. For countries that are not part of the EU, the legal guarantee that is in force at the time of purchase is applied. Keep the purchase invoice to determine this date.

During the guarantee period, Televes S.A. complies with the guarantee by repairing or substituting the faulty equipment.

The harm produced by improper usage, wear and tear, manipulation by a third party, catastrophes or any other cause beyond the control of Televes S.A. is not included in the guarantee.

Televes		DECLARATION OF CONFORMITY N° 090421085247	
<i>DECLARACIÓN DE CONFORMIDAD</i>		<i>KONFORMITÄTSERKLÄRUNG</i>	
<i>DECLARAÇÃO DE CONFORMIDADE</i>		<i>ΠΙΣΤΟΠΟΙΗΤΙΚΟ ΣΥΜΜΟΡΦΩΣΗΣ</i>	
<i>DECLARATION OF CONFORMITE</i>		<i>FÖRSÄKRAN OM ÖVERENSSTÄMMELSE</i>	
<i>DICHIAZIONE DI CONFORMITÀ</i>		<i>VAATMUSTENMUKAISUSVAKUUTUS</i>	
Manufacturer / Fabricante / Fabricante / Fabricant / Fabricante / Fabrikant / Kattotavaraaja / Tillverkare / Valmistaja:	Televes S.A.		
Address / Dirección / Direção / Adresse / Indirizzo / Adresse / Aedðeying / Address / Osóite:	Rúa Benéfica de Conxo, 17 15706-Santiago de Compostela (Spain)		
VAT / NIF / NIF / VAT / Steuernummer / AFM / Moms / ALV:	A-15010176		
Declare under our own responsibility the conformity of the product / Declari bajo su exclusiva responsabilidad la conformidad del producto / Declara sob sua exclusiva responsabilidade a conformidade do produto / Declare sous notre propre responsabilité la conformité de ce produit / Dichiaro sotto la sua esclusiva responsabilità la conformità del prodotto / Wir übernehmen die Verantwortung für die Konformität des Produktes / Hattotavaraajaksi me osoitam, että tämä tuote täyttää kaikki vaatimukset / Försäkras om överensstämmelse enligt tillverkarens eget ansvar för produkten / Vakuutamme yksinomaan omalla vastuullamme tuotteen yhtenmukaisuus:			
Reference / Referencia / Referência / Référence / Articolo / Artikelnummer / Αριθμός / Referens / Referenz:	7143		
Description / Descripción / Descrição / Description / Descrizione / Beschreibung / Περιγραφή / Beskrivning / Kavvas:	DTT RECEIVER HD+MPEG4		
Trademark / Marca / Marca / Marque / Marchio / Handelsmarke / Märke / Varemärke / Tavaramerkki:	Televes		
With the requirements of / Con los requerimientos de / Com as especificações de / Avec les conditions de / Con i requisiti di / Die Voraussetzungen erfüllen / Με τις απαιτήσεις του / Enligt följande bestämmelser / Seuraavien määräysten:			
<ul style="list-style-type: none"> - EMC Directive 2004 / 108 / EC. - Low Voltage Directive 2006 / 95 / EC. 			
Following standards / Con las normas / Com as normas / Selon les normes / Con le norme / Folgende Anforderung / Απαιτήσεις ισχύοντα / Följande standard / Seuraavien standardien:			
EN 55013:2001 + A1:2003 + A2:2006: Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement.			
EN 55020:2007: Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement			
EN 60965:2002 + A1:2006: Audio, video and similar electronic apparatus - Safety requirements			
Santiago de Compostela, 21 de Abril de 2009			
			 José L. Fernández Carnero Technical Director
			

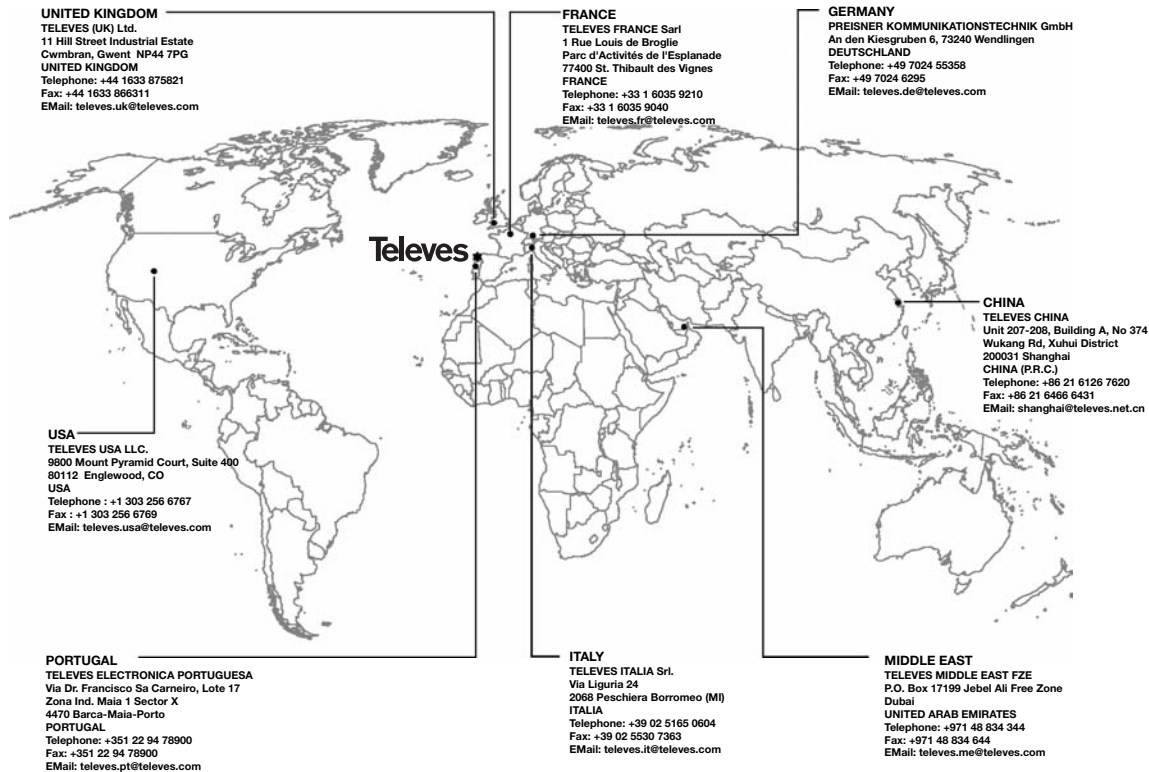


Disposal of Old Electrical & Electronic Equipment

(Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

RED COMERCIAL - COMMERCIAL NETWORK



- * Oficinas Centrales / Head Office
- Delegaciones / Subsidiaries

Sucursales / Distributors

Para conocer nuestra red de sucursales en el mundo, le rogamos consulte en nuestra pagina web
Please visit Televes web site to find your nearest Official Distributor

Televes

Rúa Benéfica de Conxo, 17
15706 - Santiago de Compostela
ESPAÑA (SPAIN)

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