



TS3010HD/01

Digital Satellite Receiver



User Manual

Dear Customer,

Thank you for choosing *TELE System TS3010HD/01* - Digital Satellite Receiver.

In this manual you will find information to help you connect, use and take care of the receiver and learn as much as you can about it.

For ease of use, the manual has been divided into 3 sections:

1. The first section is dedicated to installing the receiver, connecting it to other appliances and making the remote control work.
2. The second section is dedicated to basic receiver functions and provides information for everyday use.
3. The third section is dedicated to advanced receiver functions, personalized use and the more complex features of the receiver.
- 4.

CAUTION!

Although the receiver is easy-to-use, it is recommended that you read this manual carefully in order to understand its basic characteristics and functions, optimize its performance, and avoid problems or equipment malfunction or failure.

NOTE: Due to updates or errors, the content in this manual may not correspond exactly to the actual product.

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1 Installation

1.1 Safety Regulations

We advise you to read the following advice concerning the safety regulations carefully in order to ensure safe use of the appliance.

ELECTRICAL SUPPLY

- The receiver must be supplied by a 230V~, 50Hz current.
- Do not remove the cover. The inside of the appliance could contain higher voltages than that of the supply voltage which could endanger the user. High voltage is also present even when the appliance is on Standby. The receiver should be disconnected from the electrical supply before performing any intervention. Non-authorized removal will mean that the warranty is no longer valid!

POWER CABLE

- Before installing the appliance make sure that the cable is intact, paying particular attention to its connection to the power supply and to the receiver. If the cable is damaged do not attempt to connect the appliance and refer the problem to an authorised center for assistance.
- When installing the cable make sure that it can not be flattened in any way by items placed above or next to the appliance. Avoid placing the cable in an area where it could accidentally be stepped on, removed from the wall or damaged in any way.
- If the cable is damaged in any way, carefully disconnect the receiver from the power supply and refer to a specialised technician or the center for assistance to get a replacement.

LIQUIDS

- Keep the appliance far from any liquids. Do not place any objects containing liquids on the appliance, such as vases, humidifiers, etc. The appliance must not be installed in areas where it could come into contact with sprays or drops of water or in an environment with a high level of humidity where condensation could occur.
- If the receiver should accidentally come into contact with liquids, disconnect it immediately from the wall. DO NOT TOUCH the receiver until it has been disconnected.

SMALL OBJECTS

- Keep the receiver away from coins or other small objects. Objects which fall into the appliance via the ventilation gaps could cause serious damage.

CLEANING

- Before cleaning, disconnect the receiver from the power supply.
- To clean the outside of the receiver use a soft and dry or slightly damp cloth. Avoid using products which contain chemicals or solvents.

VENTILATION

- Make sure that the area where the appliance is to be installed has good air circulation so that the heat can be dissipate well in order to avoid overheating.
- In order to allow enough ventilation it is necessary to have a distance of at least 10 cm on either side of the appliance and 15 cm above the appliance.
- The vents must be kept clear from any obstructions such as newspapers, tablecloths, furniture material, curtains, carpets, etc.
- Avoid installing the receiver close to any heat sources (i.e. radiators, stoves, etc.) or on top of any other appliances which omit heat (i.e. video recorders, DVD players, etc.).

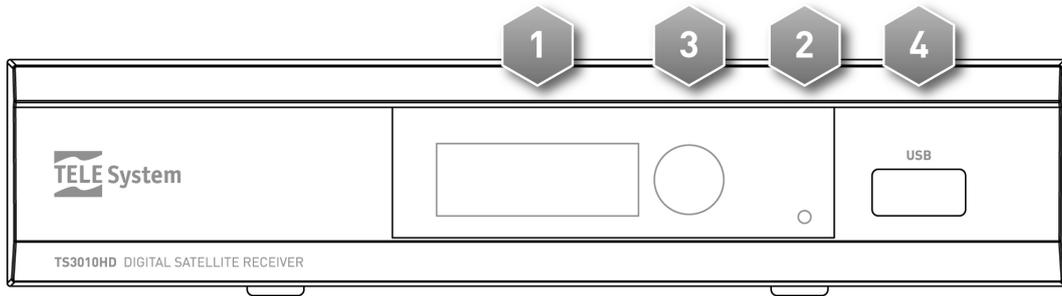
WARNING!

- Keep the appliance out of reach of children.
- The plastic bags used for packaging can be dangerous. To avoid suffocating keep the bags out of the reach of children.
- Do not expose the receiver or remote control to direct sunlight.
- The appliance must be placed on a solid and stable base.
- Connect the receiver to the power supply only after installation is complete.
- Dispose of the product correctly so as to avoid damage to the environment and human health as well as to facilitate recycling of the components/materials used in the appliance. If the product is not disposed of properly this could be punishable according to the existing law.
- The manufacturer recommends that the parts be recycled separately and be taken to sites which conform to current regulations.
- When no longer usable, take the product (including accessories and batteries), which must be kept separate from regular household waste, to a collection point authorised to handle waste from electrical or electronic appliances. Otherwise, it is possible to return the used or unusable appliance to your distributor when you decide to purchase a new one.



1.2 Product Description

1.2.1 Front panel

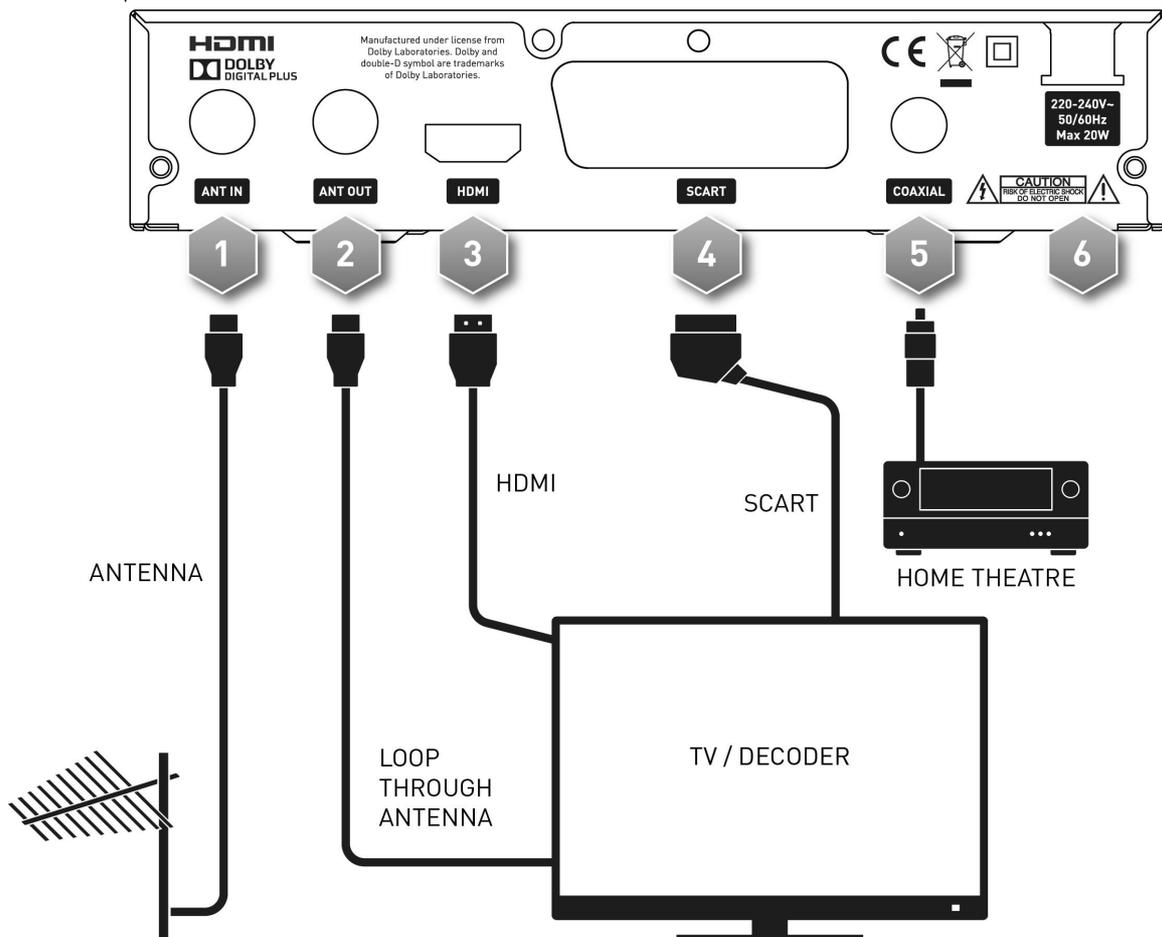


1. **DISPLAY LED:** display, 4-digit, 7-segment
2. **LED:** LED indicator: green=ON, red=Standby
3. **IR Infrared:** sensor for remote control
4. **USB:** USB port for memory device connection (optional).

CAUTION!

Compatible with USB memory devices formatted with FAT32 file systems.
 Full compatibility with all USB memory devices on the market is not guaranteed.
 Some USB hard-disks could require auxiliary power. It is advised that disks with external power cables be used.

1.2.2 Back panel



1. **ANT IN:** Antenna input
2. **ANT OUT:** Antenna output (Loop through)
3. **HDMI:** HDMI output connection for TV
4. **TV SCART:** AV SCART output connection for TV
5. **COAXIAL (S/PDIF):** Coaxial digital audio output
6. **POWER:** Mains lead for connection to mains power socket (230V~, 50Hz)

1.3 Remote control

Get well-acquainted with your remote control and you will find it much easier to navigate through the various menu options.

1.3.1 Batteries

Information and warnings

Substitute or insert the batteries the first time you use the product or when the remote control doesn't properly respond to pressure on the buttons. Compatible batteries: 2 x AAA, 1.5V.

To avoid having corrosive liquid damage the remote control, remove the batteries when the appliance is not used for long periods of time.

Avoid using different kinds of batteries or old and new batteries at the same time.

Insertion and removal

Open the battery cover on the back of the remote control and insert 2 AAA batteries making sure their polarity matches that indicated inside the compartment. Close the cover.

Remove used batteries and insert new batteries. The used batteries should be disposed of separately and taken to sites which conform to current regulations.

1.3.2 Remote control buttons and functions

1. **STANDBY ON** / Standby
2. **INFO** Current channel information
3. **SUBTITLE** Subtitles
4. **MUTE** Audio mute button
5. **Previous/Next** multimedia content on USB
6. **PLAY/PAUSE** Playback starting
7. **Pause** playback or Timeshift
8. **Rewind/Fast forward** on Timeshift or Playback
9. **MENU** Main menu
10. **EXIT** Quits menu or current function
11. **Channel up/down** or Menu navigation
12. **Volume up/down** or Menu navigation
13. **OK** Channel list or confirm selection
14. **RECORD** Start recording
15. **STOP** Playback, Timeshift or recording stop
16. **EPG** Electronic Program Guide
17. **GOTO** Contextual function button / Goto function in recording playback
18. **0-9** [numeric buttons] Direct channel entry or insert/modify parameter settings
19. **Media** Direct access to recording file list
20. **USB** Enter in Multimedia menu
21. **TV/RADIO** Switch from TV channels to Radio Channels
22. **AUDIO** Audio track and mode
23. **TTX** Teletext
24. **TIMER** Enter to Timer setup interface
25. **FAV** Favorite channels list
26. **RECALL** Return to previous channel or recall the list of the last tuned channels
27. **RED** Contextual function
28. **GREEN** Contextual function
29. **YELLOW** Contextual function
30. **BLUE** Contextual function



1.4 Connections

Satellite digital TV is transmitted via numerical type signals from satellites. This is why it is essential to make sure that the antenna is correctly pointed. If your receiver is unable to tune into any channels, before contacting the aftersales service, it is important that you have your antenna plant controlled by a specialist antenna installer.

CAUTION!

- It is good practise to connect the receiver to other appliances (e.g. TV, VCR, DVD, etc.) and the antenna before plugging in the mains lead. When the receiver is powered, electrical voltage differences may be created when plugging in the jacks, which may generate currents that could damage the appliances.
- The direct TV Scart connection should always be used as a first operating test since other more complex connections involving other audio-video appliances, may give malfunctions that are not caused by faults and/or defects of the actual appliances, but by problems of incompatibility.
- Two receivers that are cascade connected to the antenna signal through the IF LOOP OUT cannot function simultaneously. When one receiver is On, the other must be on Standby (with the tuner Off) and vice-versa.

1.5 First Time Installation

After having properly connected the receiver to the antenna and to the TV as previously indicated, make sure the TV is switched to the AV channel corresponding to the receiver's output. Turn the receiver on and after a few seconds the first time installation menu will appear on the screen.

CAUTION!

The first time installation menu will also appear after a factory reset (section **3.6 System**)

Proceed as follows:

OSD Language

Select the desired menu language using ◀/▶ on the remote control and press ▼.

Country

Select the country installation using ◀/▶ on the remote control and press ▼.

Channel Search

Press ▶ or OK on the remote control to proceed with Dish setup and channels search.

Antenna settings and channels scan

Configure the parameters on screen according to the characteristics of your antenna and start channels search, as described in section **3.3 Channels Search**.

Viewing channels

After the search, it is possible to begin viewing the memorized channels right away.

To change channel:

- Press CH +/- on the remote control to move from the next/previous channel
- Press the number of the channel desired on the remote control
- Press OK on the remote control to open the channel banner. Scroll down the list with ▲/▼ (or to go more quickly use ◀/▶) and confirm your choice by pressing OK

CAUTION!

Some special television programs may be temporarily coded since satellite transmission rights have not been granted. During the receiver's lifetime, some channels may become obsolete or modify their transmission parameters. In this case, it is recommended you to delete the inactive TV/Radio service or the entire channels list and update the latter through a new search.

2 Getting Started

CAUTION!

Before reading this chapter you must have carefully read the previous chapter.

To make it easier to use the receiver and manage the great many satellite channels, several windows and menus can be opened by pressing just one remote control button (see section 1.3.2). The menus have been designed for the most common needs and their functions are essential in saving time when using the receiver.

For the receiver's advanced functions, settings and custom options consult Chapter 3.

2.1 Channel Banner

Every time you change channels or press INFO, a box will appear at the bottom of the screen, known as an information banner, related to the channel being viewed. The banner can include the following information (if transmitted by the broadcaster):

1. Channel number
2. Channel name
3. Current time
4. Program name
5. Name of next program
6. Channel group
7. Extra details on the channel and services offered:
 - a.  = Channel locked with password
 - b.  = Coded channel

When a channel banner is being shown press INFO to open a window with more details on that particular program. To close the window press INFO or EXIT.

CAUTION!

The information in the banner is provided by the broadcaster. If no information is transmitted, this will be indicated.

2.2 Multi Audio Function

- If the channel is being transmitted in multi audio, you can select an audio track (i.e. language) and audio mode (i.e. stereo LR, mono in LL/RR channel) as follows:
 - press AUDIO on the remote control
 - use   to select an audio track or mode
 - set the option using  
 - press OK to confirm and EXIT to quit

2.3 Channel Organizer - TV/Radio Channel List

To be able to manage the large quantity of radio and TV channels offered by satellite transmission, a practical channel organizer menu can be accessed while viewing the programs. Press OK and then:

- Press   to scroll the list channel by channel
- Press   to page scroll through the list
- Press the GOTO *Satellite* button and then   to select the satellite.
- Press OK to view the selected channel and quit the menu

To manage the advanced functions of the channels list, see section 3.1.

2.4 Electronic Program Guide (EPG)

Some satellite television channels not only transmit audio/video information about the channel, they also offer optional information on daily. This information can be used by the receiver to set scheduled programs (section 2.6).

- To view the *EPG* page press EPG on the remote control. Information on the channel's programs is shown in a new window.
- Use   to select a channel
- Use   /Yellow/Blue to scroll the programming, detailed information on the event is shown in the box on right-hand side
- Press OK to book the event
- Press INFO to recall the booking list
- Press EXIT to quit the programming and quit the EPG

CAUTION!

Not all channels transmit the EPG service so if some information is not shown the receiver is not faulty.

Setting a timer from the EPG screen

A timer can be set directly from the EPG screen using the information it contains.

To do so, open the **EPG** menu:

- Press EPG
- Use ◀/▶ to select a channel
- Use ▲/▼/Yellow/Blue to select a program
- Use Green/Red to scroll up/down the event information
- Press the OK **Book** button to open the **Schedule** menu

CAUTION!

The EPG timer function cannot be used for the program being viewed since it has already begun. In this case a timer error message will be shown.

- If necessary, modify the parameters to suit your personal needs. In particular, **Mode** lets you choose between *Recording* (via USB) and a simple *Timer*. For detailed information on the timer settings consult the section of the manual on advanced use of the receiver (section 2.6)

CAUTION!

For programmed recording, make sure:

there is a memory device connected to the decoder's USB port
there is enough space in the device for the recording.

- Press OK to confirm

NOTE

When an event timer begins, if the receiver is off (on Standby mode) it will tune into the selected channel and, at the end of the event, the receiver will ask if you want to turn it off (put in on Standby) or leave it on. If the receiver is on and tuned into a channel, it will switch over to the selected channel. When the event or program ends the receiver will automatically return to the previous channel.

2.5 USB

The USB port on the front of this receiver allows for multimedia files to be read and for unencrypted digital satellite programs to be recorded.

CAUTION!

The receiver is compatible with USB memory devices formatted with FAT32 file systems.

To work properly, some hard disks that are auto-powered via USB could require an external power supply.

Full compatibility with all USB memory devices on the market is not guaranteed.

The use of a device with at least 16 GB of free memory space is advised.

USB memory connection

After the USB is connected, and after each decoder start-up, a control of the device is undertaken that could last a few seconds depending on the amount of memory in the device.

After the first recording, a folder called **HBPVR** is created, that acts as the receiver's working folder for recordings.

CAUTION!

Never disconnect the USB memory device during multimedia reproduction, while recording, during Timeshift, formatting or in the presence of a recording event timer: the devices involved may be irreversibly damaged!

2.5.1 TV program recording

Before recording, make sure the USB is connected. Also check the state of the USB memory device and the space available from the **USB – PVR Configure - Record Device** menu.

Instant Recording

To start recording manually, switch to the program desired, press RECORD on the remote control. To end the recording, press STOP and confirm.

Programed Recording

The **Schedule** menu allows you to manually set several recording timers. In the timer definition, besides setting the channel, date, start and end times, make sure the *Recording* option (on **Mode**) is selected. Press OK to confirm.

Otherwise, from the EPG menu press the OK **Book** button after having selected the program. The recording timer's definition fields will be completed automatically. Press OK to confirm.

CAUTION!

Make sure you have enough memory space before proceeding to record.
Remember to leave the USB memory device connected.

2.5.2 Timeshift

Timeshift temporarily records a program until you switch channels. It is therefore possible to resume viewing a program being recorded using ◀◀ REW and II PAUSE (PLAY/PAUSE) buttons. Press STOP to view the live event.

2.5.3 File recognition

The multimedia files that can be read by this device are:

1. Photo: JPG
2. Music: MP3
3. Film: MPEG2/MPEG4

Playing recorded files

To view a recording made with the receiver, among the files located in the corresponding working folder, access the **USB - MULTIMEDIA - PVR** menu (section 3.7.1.4). Choose the file from the list available inside the folder HBPVR and press **OK** to see a preview. Press **RED Preview** button to view the recording full screen.

Reading personal files

To view a film, music or photos located in a personal folder on the USB memory device connected to the receiver, access the **USB - MULTIMEDIA** menu. Select the type of file to reproduce from the options available **Music / Photo / Movie**. Navigate between the folders using ▼/▲ and **OK** and, finally, press **OK** to view/listen.

2.6 Timer

This menu can be used to set a clock or a timer for one or more events.

The timers can be set directly in the Electronic Program Guide (EPG) for channels that transmit this information (section 2.4) or by pressing the **TIMER** button on remote control.

CAUTION!

The start date and time set when programming the event timer must be after the actual time.

To set a timer, press the **RED Add** button from the programming list to enter the **Event Edit** screen. Define the following parameters:

1. **Channel Type:** TV or Radio
2. **Channel No./Name:** select channel number and name
3. **Start Date:** date to start the timer (MM/DD/YYYY)
4. **Start Time:** hour to start the event (hh:mm)
5. **End Time:** hour to stop the timer (hh:mm)
6. **Repeat:** timer frequency (*Once, Daily, Weekly*)
7. **Mode:** type of timer, either *Timer* (simply view the event) or *Recording* (view and record an event with a USB).

CAUTION!

When an event timer begins, if the receiver is off (on Standby) it will tune into the selected channel. At the end, the receiver will ask if you wish to turn off the receiver (Standby) or leave it on. If the receiver is on and tuned into a channel, it will change to the selected channel. When the event or program ends the receiver will automatically return to the previous channel.

3 Advanced Functions

CAUTION!

Modification of some parameters in this menu may affect the correct operation of the receiver. Therefore it is important that you carefully read this section of the manual before changing any settings. Some functions are protected by a password to prevent accidental changes (see section 3.6).

During normal viewing, press MENU on the remote control to open the main menu, which will include the following seven sub-menus:

1. Program
2. Picture
3. Channel Search
4. Time
5. Option
6. System
7. USB

SOME SIMPLE NAVIGATION RULES

Use the following buttons to navigate through the various menu items:

press ◀▶▼▲ to select a menu or option

press OK to confirm a selection or to open a menu

press MENU or EXIT to quit a menu or return to the previous screen

In any case, always follow the indications given on each menu screen which usually provide a function's corresponding remote control button.

3.1 Program

The **Program** menu is used to consult the **TV/Radio Guide** (see section 2.4) and to modify the **TV/Radio List**, it consists in 3 submenus:

1. Program edit

Various functions are provided in the **Program edit menu**, which can be selected using the indications given on menu window

- a. **Move**: Move a channel to another position
- b. **Skip**: Hide a channel. A hidden channel can be made to re-appear only by pressing its position number on the remote control
- c. **Lock**: Block access to a channel using a password
- d. **Delete**: Eliminate one or more channels from the list
- e. **Fav**: Add the selected channel to one of the eight favorite channels list
- f. **Rename**: Rename a channel
- g. **GOTO**: select satellite list

2. Sort

Press OK to recall the options *Default / By Encrypt / By Freq / By Service Name*, select the option and confirm with OK to change the sorting of the channels.

3. EPG

Press ok to recall the EPG (see section 2.4)

3.2 Picture

From the **Picture** menu, it is possible to configure the following:

1. **TV format**: How the image is viewed on screen
 - a. **4:3 Letter Box**: for 4:3 standard screen ratio formats; images with a 16:9 ratio fill the screen horizontally but have a black bar above and below to fill the screen
 - b. **4:3 Pan&Scan**: for 4:3 standard screen ratio formats; images with a 16:9 ratio fill the screen vertically but are cropped at the sides
 - c. **4:3 Full**: for 4:3 standard screen ratio formats; images with a 16:9 ratio are stretched out to fit the screen
 - d. **16:9 PB (Pillar Box)**: for 16:9 standard screen ratio formats; images with a 4:3 ratio have black bars on the sides of the image
 - e. **16:9 FS (Full Screen)**: for 16:9 standard screen ratio formats; images with a 4:3 ratio are stretched out to fit the entire screen
 - f. **16:9 Pan&SCAN**: for 16:9 standard screen ratio formats; images with a 4:3 ratio are cropped to fill the screen

2. **Resolution:** 576i / 576p / 720p / 1080i / 1080p (50 Hz)
3. **TV Formay:** PAL or NTSC color system.
4. **Video Output:** Value of TV SCART video output in three-color process (RGB) or composite video (CVBS)

3.3 Channels Search

3.3.1 Dish Setup

CAUTION!

The **Dish setup** menu settings are specific to your antenna plant. Any wrong settings may make it impossible to view certain TV programs. It is important that you know the characteristics of your antenna plant and/or consult a professional installer in order to correctly setup the receiver.

Essentially, based on the setting of DiSEqC and Motor parameters, three configurations modes are possible.

3.3.1.1 Basic Mode

Single LNB/satellite antenna plants, with a direct connection between the receiver and antenna, do not use DiSEqC or other specific communication protocols.

Antenna and satellite setup

1. **Satellite:** Select satellite name (i.e. HotBird 13°E). Press OK button then ►.
2. **LNB Type:** set Local oscillator frequency (Low/High Freq). Change the LNB frequency type using ◀/▶. (i.e. In Italy, a typical setting is 9750/16600)
3. **LNB Power:** Power control for switching H/V polarity
4. **22K Tone:** 22KHz signal to switch between high and low frequency bands.
5. Toneburst: Off
6. **DiSEqC1.0:** none
7. **DiSEqC1.1:** none
8. **Motor:** none

Is it possible to choose a specific Transponder on which to mount the antenna to receive the signal; Strength and Quality indicators are shown on screen. Press GOTO to enter the Transponder List and use ▼/▲ to choose a transponder from the list of transponders available as a result of the previously selected satellite. Press GOTO to return to previous screen.

CAUTION!

If the quality bar at the bottom of the screen does not respond or indicate low level, make sure the parameters have been entered correctly and that the selected TP is not out-of-date.

Satellite channels scan

To conduct a channel scan on a selected satellite:

- Press the BLUE **Scan** button
- Define the following in the **Scan mode** screen:
 1. **Scan Mode:** scan the Transponder database (*Default*) or by a Blind-scan (*Blind-Detail*) or by network.
 2. **Crypted:** choose *Free Only* to scan only free channels (recommended) or *All* for coded channels as well.
 3. **Service type:** choose All, only TV (DTV) or only Radio (Radio).
- Press OK to start scan

3.3.1.2 DiSEqC 1.0 (1.1) Mode

The DiSEqC 1.0 and DiSEqC 1.1 protocol was developed for multiple converter antenna plants and allows switching between up to four (DiSEqC 1.0) or up to sixteen (DiSEqC 1.1) satellite sources.

1. **Satellite:** Select satellite name. Press OK button then ►.
2. **LNB Type:** set Local oscillator frequency (Low/High Freq). Change the LNB frequency type using ◀/▶. (i.e. In Italy, a typical setting is 9750/16600)
3. **LNB Power:** Power control for switching H/V polarity
4. **22K Tone:** 22KHz signal to switch between high and low frequency bands.
5. Toneburst: Off
6. **DiSEqC1.0** or **DiSEqC1.1:** set LNB number based on antenna plant (i.e. Dual-feed: HotBird 13°E on LNB1 and Astra 19.2°E on LNB2)
7. **Motor:** none

NOTE

Repeat the procedure for each satellite in which you need to conduct a channel scan.

CAUTION!

If the signal Strength and Quality bars at the bottom of the screen do not respond or indicate low level, make sure the parameters have been entered correctly and that the selected TP is not out-of-date.

Satellite channels scan

To conduct a channel scan on the selected satellites:

- Press the BLUE **Scan** button
- Define the following in the **Scan mode** screen:
 1. **Scan Mode**: scan the Transponder database (*Default*) or by a Blind-scan (*Blind-Detail*) or by network.
 2. **Crypted**: choose *Free Only* to scan only free channels (recommended) or *All* for coded channels as well.
 3. **Service type**: choose All, only TV (DTV) or only Radio (Radio).
- Press OK to start scan
-

3.3.1.3 Motor Mode

This receiver can command a motorised antenna either manually (using the DiSEqC 1.2 protocol) or semi-automatically (using the USALS (DiSEqC 1.3) protocol), depending on the type of motor used in the plant.

To use this mode, it is necessary to set the **Motor** to *DiSEqC 1.2/DiSEqC 1.3*.

3.3.1.3.1 DiSEqC 1.2

Set limit

Set **Motor** to *DiSEqC 1.2* and then press **Set Limit** (RED button) to enter the motor setup interface and define the following:

1. **Move Continue**: adjustment of the antenna position
2. **Move Step**: Step adjustment of the antenna position
3. **Set West/East Limit**: define left/right rotation limits for the motor
4. **Goto reference**: recalls the default motor position.
5. **Disable limit**: delete the left/right rotation limits for the motor

Antenna and satellite setup

1. **Satellite**: Select satellite name (i.e. HotBird 13°E). Press OK button then ►.
2. **LNB Type**: set Local oscillator frequency (Low/High Freq). Change the LNB frequency type using ◀/▶. (i.e. In Italy, a typical setting is *9750/16600*)
3. **LNB Power**: Power control for switching H/V polarity
4. **22K Tone**: 22KHz signal to switch between high and low frequency bands.
5. Toneburst: Off
6. **DiSEqC1.0**: none
7. **DiSEqC1.1**: none
8. **Motor**: DiSEqC 1.2
9. With the command line positioned on MOTOR item, press **Ok** button to enter the Set Position menu, which allows you to define the position of the selected satellite
 1. **Move Auto**: auto adjustment of the antenna position
 2. **Move Continue**: adjustment of the antenna position
 3. **Move Step**: Step adjustment of the antenna position
 4. **Store Position**: store the position of the selected satellite
 5. **Goto Position**: recalls the motor position saved for the selected satellite.
 6. **Goto reference**: recalls the default motor position.
 7. Press EXIT twice to save settings and return to the previous screen

Satellite channels scan

To conduct a channel scan on the selected satellites:

- Press the BLUE **Scan** button
- Define the following in the **Scan mode** screen:
 1. **Scan Mode**: scan the Transponder database (*Default*) or by a Blind-scan (*Blind-Detail*) or by network.
 2. **Crypted**: choose *Free Only* to scan only free channels (recommended) or *All* for coded channels as well.
 3. **Service type**: choose All, only TV (DTV) or only Radio (Radio).
- Press OK to start scan

DiSEqC 1.3

Set limit/location

Set **Motor** to *DiSEqC 1.3* and then press **Set Limit** (RED button) to enter the motor setup interface and define the following:

1. **Move Continue**: adjustment of the antenna position
2. **Move Step**: Step adjustment of the antenna position
3. **Set West/East Limit**: define left/right rotation limits for the motor
4. **Goto reference**: recalls the default motor position.
5. **Disable limit**: delete the left/right rotation limits for the motor
6. Press EXIT to return on previous menu and then press **Set Location** to define the Antenna plant's coordinates.

Antenna and satellite setup

1. **Satellite**: Select satellite name (i.e. HotBird 13°E). Press OK button then ►.
2. **LNB Type**: set Local oscillator frequency (Low/High Freq). Change the LNB frequency type using ◀/▶. (i.e. In Italy, a typical setting is 9750/16600)
3. **LNB Power**: Power control for switching H/V polarity
4. **22K Tone**: 22KHz signal to switch between high and low frequency bands.
5. Toneburst: Off
6. **DiSEqC1.0**: none
7. **DiSEqC1.1**: none
8. **Motor**: DiSEqC 1.3

Press EXIT to return on previous menu, then press **Ok** button to enter the Set Position menu, which allow you to define the position of the selected satellite

1. **Move Auto**: auto adjustment of the antenna position
2. **Move Continue**: adjustment of the antenna position
3. **Move Step**: Step adjustment of the antenna position
4. **Store Position**: store the position of the selected satellite
5. **Goto Position**: recalls the motor position saved for the selected satellite.
6. **Goto reference**: recalls the default motor position
7. **Goto X**: recalls the satellite position.

CAUTION!

To correctly define the motor position, it is firstly necessary to use the *Goto X* feature, therefore fine adjust the position with the Move items and then store the position

8. Press EXIT twice to save settings and return to the previous screen

Satellite channels scan

To conduct a channel scan on the selected satellites:

- Press the BLUE **Scan** button
- Define the following in the **Scan mode** screen:
 1. **Scan Mode**: scan the Transponder database (*Default*) or by a Blind-scan (*Blind-Detail*) or by network.
 2. **Crypted**: choose *Free Only* to scan only free channels (recommended) or *All* for coded channels as well.
 3. **Service type**: choose All, only TV (DTV) or only Radio (Radio).
- Press OK to start scan

3.3.1.4 Transponder management and single channel search

The **Dish Setup** menu allows you to modify and update the preset list of satellites and relative transponders, as well as conduct a limited channel search on a single transponder.

Database management

- **Add (red button)** to add a new satellite.
- **Goto** to enter the transponders list and then **Add (red button)** to add a new Transponder

Transponder channels scan

To conduct a channels scan on a single frequency:

- Press the BLUE **Scan** button on the selected transponder
- Define the following in the **Scan Mode** screen:
 1. **Scan Mode**: scan the Transponder database (*Default*) or by a Blind-scan (*Blind-Detail*) or by network.
 2. **Crypted**: choose *Free Only* to scan only free channels (recommended) or *All* for coded channels as well.
 3. **Service type**: choose All, only TV (DTV) or only Radio (Radio).
- Press OK to start scan

CAUTION!

If the signal Quality (Q) bars does not respond or indicate low level, make sure the antenna has been configured correctly in the **My Dish** menu and that the selected transponder is not out-of-date.

3.3.2 DB management

The Database management allow you to download or upload the channels list by USB device.

1. **Load from USB:** press OK button to upload the channel list from USB device.
2. **Backup to USB:** press OK button to download the channel list inside an USB device.

3.4 Time

The **Time** menu allows you to se the date/time of the receiver for correct interfacing with the antenna signal, to set the Auto power down and OSD disappearance.

1. **Time offset:** set Auto to automatically regulate the time according to Greenwich Mean Time (GMT).
2. **Time Zone:** regulate the time based on the local time difference with respect to GMT.
3. **Date:** available only when the *Time Offset* is set to *Manual*
4. **Time:** available only when the *Time Offset* is set to *Manual*
5. **Sleep:** after the time specified of user inactivity, the receiver will automatically go on Standby.
6. **OSD off:** set the duration of the channel information banner

3.5 Option

The **Option** menu allows you to setup the general system of your receiver, configure the receiver for correct interfacing with the antenna and external audio/video devices

The following parameters are available:

1. **OSD/Subtitles/Audio Language:** select the OSD and main audio and subtitles languages from the menu.
2. **Digital Audio:** select the digital audio output OFF, PCM, RAW (HDMI) and RAW.

3.6 System

1. **Parental Guidance:** the parental lock function allows for the viewing of sensitive material to be controlled. If a channel transmits a program with view control aimed at a public of the same age or older than the age level previously selected from the menu, the receiver will block the channel. A message will appear on the screen requesting that the PIN number be entered to unlock the channel
2. **Set password:** modify system password

CAUTION!

- Default password is 000000.
 - If you have forgotten your password, please contact your local retailer.
3. **Restore Factory Default:** resets the receiver to its factory settings.

CAUTION!

Factory reset means you will lose all personalised settings and all the channels previously stored.

4. **Information:** shows some information about the receiver, such as Model, SW version and HW version
5. **Recall list:** if set to off, by pressing the Recall button on remote control, the receiver returns to previous channel, while if it is set to ON, recalls the list of the last tuned channels.
6. **Software Update:** Since your receiver is made to last, the time may come when its software needs to be modified or improved by updates. These updates will optimise the receiver's functions or correct minor flaws. The software for this receiver can be updated in the following way:
 - a. **Update by USB:** Updates the receiver using a USB connected memory device
 - b. **OTA:** Updates are distributed directly to all receivers by satellite. The receiver can detect and download a new software version. If necessary, the factory set parameters of the receiver can be modified (recommended for expert users).

3.7 USB

The USB port on the front of this receiver allows for multimedia files to be read and for unencrypted digital satellite programs to be recorded.

CAUTION!

The receiver is compatible with USB memory devices formatted with FAT32 file systems.
To work properly, some hard disks that are auto-powered via USB could require an external power supply.
Full compatibility with all USB memory devices on the market is not guaranteed.
The use of a device with at least 16 GB of free (unused) memory is advised.

USB memory device connection

After the USB is connected, and after each decoder start-up, a control of the device is undertaken that could last a few minutes depending on the amount of memory in the device.

After the first recording, a folder called **HBPVR** is created, that acts as the receiver's working folder for recordings.

CAUTION!

Never disconnect the USB memory device during multimedia reproduction, while recording, during Timeshift, formatting or in the presence of a recording event timer: the devices involved may be irreversibly damaged!

3.7.1 Multimedia

Select the **Multimedia** item to open the Multimedia menu, then you can choose four different categories:

3.7.1.1 Music

Select the **Music** menu, browse the folders of the memory device and press OK to listen to the music files.

3.7.1.2 Photo

Select **Photo** menu, browse the folders of the memory device and press OK on the target file to view the photo.

3.7.1.3 Movie

Select the **Movie** menu, browse the folders saved on the memory device and press OK to see a preview, press RED button to activate the playback full screen.

3.7.1.4 PVR

Select the **PVR** menu, browse the file saved inside the folder HBPVR and press OK to see a preview, press RED button to activate the playback full screen.

3.7.2 Photo configure

Allow to set the slideshow parameters:

Slide time: from 1 sec to 8 sec

Slide mode: from Random to 0-59

Aspect ratio: keep the original size or discard

3.7.3 Movie Configure

Allow to set the the subtitles characteristics:

Subtitle Specific: small, normal or big

Subtitle BG: transparent, gray, yellow/green, white

Subtitle FontColor: red, blue, green, white, black

3.7.4 PVR Configure

Allows the memory device that is connected to the decoder to be formatted and to set the size of memory dedicated to the Timeshift:

3.7.4.1 Record device

Allow to modify the size of memory dedicated to the Timeshift and to get some info about the device connected:

1. **DISK:** select the disk partition
2. **Timeshift Size:** set the memory size dedicated to the Timeshift

3.7.4.2 Format

Allows the memory device that is connected to the decoder to be formatted

1. **Format:** select the disk partition
2. **File System:** allow to choose the file system type, which has to be used to format the device
3. To proceed with the Format operation, after choosing the File System, it is necessary to select the disk partition and then press OK.

CAUTION!

Upon first use of the memory device, it is strongly advised that you format it from the **Format** menu. To guarantee Timeshift lasts, using a device with at least 16 GB of free (unused) memory is advised.

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4 Troubleshooting Guide

PROBLEM	PROBABLE CAUSE	SOLUTION
The LEDs on the front panel don't light up.	The receiver is not plugged into the power socket.	Make sure the receiver is plugged into the power socket.
No signal.	Antenna cable is not connected to the receiver.	Connect the antenna cable to the receiver.
	Antenna plant is damaged.	Check that the antenna plant is set up properly: antenna orientation, antenna cable, switching devices or LNBS. It is recommended that a qualified technician perform the check.
	Incompatible antenna plant.	Make sure the type of satellite plant is correct: single or dual feed, switch, IF IF. If there is no information available, consult the installer.
No image or sound.	The receiver is in Standby mode.	Turn on the receiver.
	The TV SCART cable is disconnected or the TV is not switched to AV.	Connect the TV SCART or switch the TV to the correct AV channel.
	The TV is off or on the wrong channel.	Turn on the TV and/or switch it to the correct audio/video channel.
	The channel is obsolete or coded.	Change channel and/or perform a new search.
The remote control doesn't work.	No or flat batteries.	Insert new or substitute old batteries.
	Batteries are inserted but in the wrong way.	Make sure the batteries are inserted correctly (follow the instructions inside the battery compartment).
	The remote control was dropped and a component is damaged.	Contact the distributor to purchase a new remote control.
The settings aren't memorized.	Did not confirm after modifying the settings.	After each modification, press the corresponding confirm button.
Forgotten password.		See section 3.6.
The program information isn't displayed.	The program doesn't transmit such information.	
	The clock is not set correctly.	Set the clock. See section 3.4
The receiver doesn't respond to the remote control buttons.	Receiver is temporarily blocked.	Disconnect the receiver from the power supply and, after a few minutes, reconnect.
	Problems with the remote control.	See related suggestions above.
The USB memory device isn't recognized or doesn't work correctly.	Memory device not formatted correctly or not compatible.	See section 3.7.1.
	Memory speed not sufficient for recording.	
	Type of file not supported.	
	The receiver's single USB port is not enough to feed the memory.	Use a hard disk with external power supply.
The receiver automatically shuts down.	Sleep timer function active.	See section 3.4.

CAUTION!

Generally, in case the receiver doesn't respond correctly, a system reboot or a Factory reset (section 3.6) can help solve the problem.

5 Menu Organization

The receiver menu is organized as follows:

Program ▼	Picture ▼	Channel Search ▼	Time ▼	Option ▼	System ▼	USB ▼
-Program Edit - Sort - EPG	- Aspect ratio - Resolution - TV Format - Video output	- Dish Setup -DB Managemant	- Time Offset - Time Zone - Date -Time - Sleep - OSD Off	- OSD Language - Subtitle Language - Audio Language - Digital Audio -Audio Description	- Parental Guidance - Set password - Factory Default - Information - Recall List -Software Update	-Multimedia -Photo Configure - Movie Configure - PVR Configure

NOTE

Navigating the menus is simple and intuitive. Use the MENU, EXIT, cursor (arrows and OK) and numerical buttons on the remote control. Follow the indications on each menu display screen.

6 Glossary

Broadcaster Company transmitting the satellite TV signal and manages the information transmitted.

Coded channels Television channels viewed only by paying a fee. The digital signal is coded so that viewing is only allowed on special Common Interface receivers that have optional components to access the channel, like CAM cards and subscriptions (on sale at household electronics dealers and/or directly from the service provider).

FTA channels Television channels that can be viewed free of charge. These channels can be viewed by both Common Interface (CI) and Free To Air (FTA) receivers.

DiSEqC (Digital Satellite Equipment Control) Communication protocol used between the receiver and commutators of the antenna plant.

EPG (Electronic Program Guide) The series of information provided by the broadcaster on daily or weekly programming. Not all broadcaster provide this service.

LNB (Low Noise Block converter) An electronic device installed on the antenna so it can take incoming electromagnetic signals from a satellite and convert it into electrical signals usable by a receiver.

Network Group of channels transmitted by a broadcaster.

PID (Package Identifier) Univocal Number code that identifies a channel within a data package transmission.

Polarity Property of an incoming electromagnetic satellite signal that allows different signals to be transmitted on the same frequency.

CI Receiver (Common Interface) Receivers with one or more slots for CAM cards to receive coded channels.

FTA receiver (Free To Air) A receiver that is only suitable for receiving unencrypted channels. These appliances will not receive coded channels.

Transponder A device capable of transmitting several TV and Radio channels simultaneously on a single band ("transport" frequency of the signal).

7 Technical Specifications

Type of product	Free To Air (FTA) High Definition (HD) Satellite (DVB-S) receiver with USB
Input frequency	950÷2150 MHz
LNB switching	13/18V, 22 KHz, 500mA
LNB Loop through	-
DiSEqC	Tone Burst, DiSEqC 1.0, DiSEqC 1.2/USALS
Language menu	ENG - CZE - DAN - FRA - DEU - ITA - POR - ESP - SVE
OSD menu	•
Teletext (ETSI EN 300 472)	•
Subtitles (ETSI EN 300 706)	•
Electronic Program Guide (EPG)	•
Video Format Rate	4:3 Full 4:3 Letter Box, 4:3 Pan Scan, 16:9 Pillar Box, 16:9 Full, 16:9 Pan Scan
RF modulator	-
Integrated modem	-
Coaxial Digital Audio Output (SPDIF)	•
Optical Digital Audio Output (SPDIF)	-
TV SCART output	Out: Video RGB / CVBS, audio L+R
VCR SCART connection	-
RCA Audio Stereo Connectors	-
RCA Video Connector	-
RS232 Data Serial Port	-
USB Port	On front panel
USB memory devices requirements	File System: FAT32 Size: HDD from 300GB to 2TB, Flash Disk from 16GB to 32GB
Multimedia file reader via USB	photo: JPG, audio: MP3, video: MPEG2/MPEG4
Recording via USB	From internal TV tuner
Software updating	Via USB/OTA
Factory reset function	•
Favorite Channels List	•
Event timer	On-Off / recording
Auto Standby (energy saving function)	•
Power supply	220÷240V~, 50/60Hz
Power Consumption	On mode: <20W MAX Standby mode: < 1,0W
Dimensions	170x90x36 mm



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Product Code 21005248

Satellite Receiver TELE System TS3010HD/01

EU conformity declaration:

Tele System Digital states that this product meets the basic European requirements of 2014/53/EU (RED - Radio Equipment Directive) 2009/125/EC (ErP - Ecodesign requirements for energy-related products) 2014/30/EU (EMC - Electromagnetic Compatibility), 2014/35/EC (LVD - Low Voltage Directive), following the technical directives:

Electromagnetic Compatibility:

EN 55032:2015

EN 55020: 2007+A11:2011+A12:2016

EN 61000-3-2: 2014

EN 61000-3-3: 2013

Low Voltage:

EN 60065:2014+A11:2017

RED radio equipment directive:

EN 303 372-2 V1.1.1 (2016-04)

EN 62479: 2010

Bressanvido, August. 2017

Flavio de Poli

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