



TS4502 **DVB-S2 HEVC CI+**
Decoder Satellitare



Manuale d'utilizzo



Index

1	Safety precautions and disposal.....	3
2	Product Description and possible connections.....	4
2.1	Front panel.....	4
2.2	Rear panel and receiver connections.....	4
2.3	Remote control	5
2.3.1	Batteries.....	5
2.3.2	Buttons on the remote control.....	5
3	First start of your receiver.....	6
4	ANTENNA SETTING.....	6
4.1	Single fixed satellite antenna system.....	6
4.2	DiSEqC multi-satellite antenna systems.....	6
4.3	Motorized antenna systems.....	7
4.4	CHANEL SEARCH.....	7
4.5	Channel Viewing.....	7
5	Menu.....	8
5.1	EPG.....	8
5.2	Installation.....	8
5.3	Edit Channels.....	8
5.4	Settings.....	8
5.5	Information.....	9
5.6	Media Player.....	9
5.7	Memory info.....	9
5.8	USB speed test.....	9
6	Recording.....	9
6.1	Playback of recorded content.....	10
6.2	Timeshift.....	10
7	Media Player.....	10
8	Glossary.....	11
9	Troubleshooting guide.....	12
10	Technical specifications.....	12

1 Safety precautions and disposal

For safe use of the appliance and your safety, please read the following notes on safety measures.

POWER SUPPLY

Use the supplied power adapter, connecting it exclusively to a 230V ~, 50 Hz power socket.

Do not remove the receiver cover. Higher voltages than the power source may be present inside the unit and they may endanger your safety. High voltage is present even when the appliance is in standby mode. Before working on the receiver you must disconnect it from the mains. Unauthorized removal of the cover will void the warranty!

POWER CORD

Before installing the unit check the power wire is not damaged. If the wire is damaged, then do not attempt to connect the appliance and contact a service centre.

Install the power cord of the apparatus so as not to cause crushing by objects placed on or next to it. Also, do not place it near areas where it may accidentally be stepped on, torn or otherwise damaged.

If the cable is damaged in any way carefully disconnect the appliance from the power supply and contact a specialist or Service Centre for repair.

LIQUIDS

Keep the receiver away from any kind of liquid. Do not place objects filled with liquids, such as vases, humidifiers, etc. on top of the unit. The apparatus should not be installed in areas where it may come into contact with spray or liquid splashing or in environments with high humidity where condensation can occur.

If the receiver accidentally comes into contact with liquids, immediately remove the plug from the mains socket. Do not touch the device with your hands until it has been disconnected.

SMALL ITEMS

Keep the receiver away from needles or other small items that may fall inside the unit through the ventilation slots. They can cause serious damage.

CLEANING

Before cleaning, disconnect the receiver from the power outlet.

To clean the exterior of the product, use a soft, dry, or slightly damp cloth. Avoid the use of chemicals or solvents.

VENTILATION

Make sure that wherever the appliance is installed, there is good air circulation in order to allow sufficient heat dissipation and avoid overheating. To allow adequate ventilation, there should be a minimum distance of 10 cm on both sides and 15 cm above the appliance.

The vents must be kept clear, unobstructed by the presence of objects like newspapers, table cloths, furniture, curtains, carpets etc.

Do not expose the receiver or the remote control to heat sources (radiators, heaters, the sun, etc) or on top of other equipment that produce heat (VCRs, DVD players, audio amplifiers, etc).

ATTENTION!

Keep the appliance out of the reach of children.

Packaging plastic bags can be dangerous. To avoid suffocation keep the bags away from children.

The appliance must be placed on a solid and secure base.

Connect the receiver to the mains only after completing all other connections needed for the installation.

The crossed out bin symbol indicates that it is prohibited to throw this product away in the environment or to throw it away with the towns mixed municipal waste. Those who do not respect this rule are punishable by current applicable law.

Proper disposal of the appliance enables you to avoid potential harm to the environment or human health, and to facilitate the recycling of components and materials contained in it, saving energy and resources.

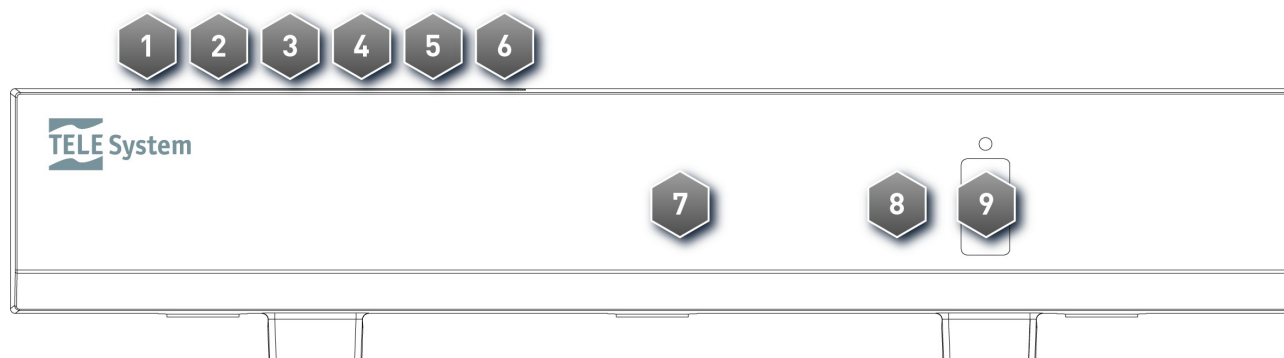
The manufacturer has set up a system of recovery of waste electrical and electronic equipment (WEEE) waste of this product which is subject to separate collection and treatment systems, making use of installations complying with current regulations in this matter.

Take the product that is no longer usable (and any accessories, including batteries) to a collection point which is authorized to handle waste from electrical and electronic equipment. Alternatively, you can return your used or dead equipment to the dealer when purchasing new equivalent type of device or free of charge if the household appliance is less than 25 cm in size.



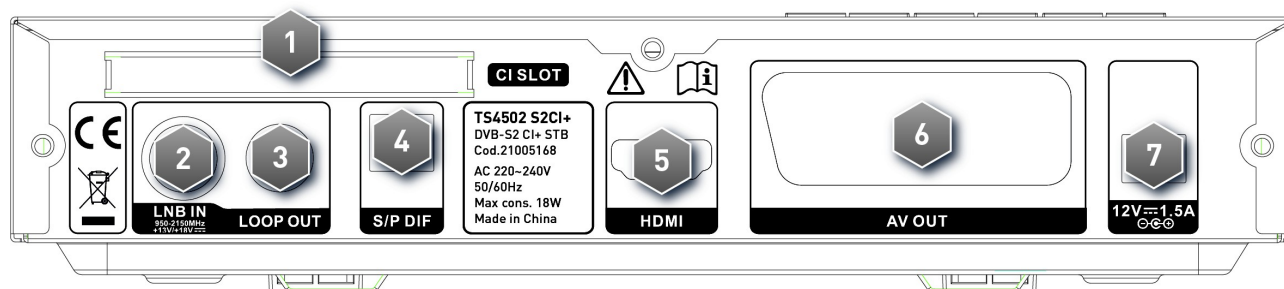
2 Product Description and possible connections

2.1 Front panel



1. Power on (ON) / switching off in standby mode (ST.BY).
2. Channel list
3. ◀ Changing channels: next
4. ▶ Changing channels: previous
5. ▮ Decreases Volume
6. ▮ Increases Volume
7. Display
8. **IR** infrared sensor for remote control.
9. USB connector for reading personal media (video, pictures, music) and recording from integrated digital satellite tuner where permitted by transmission.

2.2 Rear panel and receiver connections



1. CI slot: CAM module input
2. LNB IN: input signal from the satellite dish.
3. Loop Out: exit the loop antenna signal for connecting an additional receiver.

WARNING

If two receivers are connected to the antenna signal through the passing LOOP OUT connector, they cannot operate simultaneously. When a receiver is switched on, the other must be placed in standby mode (with the tuner is not active) and vice versa.

4. S/PDIF: S/PDIF coaxial digital audio output for home-theatre amplifier.
5. HDMI: HDMI digital audio and video output
6. AV OUT: SCART analog audio-video output
7. 12V: connection for 12V power supply: input (AC/DC adaptor) provided.

2.3 Remote control

Good knowledge of the remote control functioning is the base to easily navigate within the various menu options. The functions of the buttons are simple and intuitive.

2.3.1 Batteries

Information and warnings

Replace or insert batteries before the first use of the product or when the remote does not respond properly to keystrokes. Compatible batteries: 2 x AAA, 1.5 V.

To prevent the loss of corrosive liquid from damaging the remote control, we recommend that you remove the batteries when the device is not used for a long period of time.

Do not use different types of batteries or new and used batteries at the same time.

Inserting and removing

Once you open the battery cover on the back of the remote control, insert the 2 batteries (AAA format) respecting the correct polarity as indicated inside the battery compartment. Then close the door.

Remove the used batteries must be disposed of separately from domestic waste, taking them to any point of sale or waste collection point, then repeating similar operations as the insertion.

2.3.2 Buttons on the remote control

POWER (On/Stand.by): power on/off in stand.by.

TV/Radio: change between TV and Radio source, and vice versa.

Mute: audio mute.

Edit: Edit Channel menu access.

LANG: Language menu access.

A/V: Audio/Video menu access

CI: information about CAM module and card

TIMESHIFT: Timeshift start

Media: access to multimedia content

FAV: access to favorites

Timer: Timer list

0÷9 alphanumeric keys Changing channels or entering alphanumeric values.

INFO: information about the program being viewed/ tuned in channel.^(*)

Recall: return to the previous channel

▲ ▼ ◀ ▶: menu navigation, in the EPG and applications.

OK: This opens the channel list or confirms actions/changes.

MENU Main Menu.

EPG Electronic program guide (EPG).

BACK back to the bottom level of the menu.

EXIT Exit from menu, EPG or other active functions.

VOL +/- audio volume level adjustment.

CH +/-: next/previous channel.

PVR: direct access to the recordings made.

TXT Teletext.^(*)

SUB Subtitles.^(*)

AUDIO: available audio tracks.^(*)

Colour buttons (RED, GREEN, YELLOW, BLUE) have many features. They serve on the menu, in the text services and applications.

- REC
- ▶ Play
- ⏸ Pause
- STOP
- ⏮ REW
- ⏭ FWD
- ⏮ PREV
- ⏭ NEXT

^(*)The program information, the subtitles, teletexts and additional audio tracks are provided by the broadcaster channel; This data may be incomplete or absent.



3 *First start of your receiver*

Once all the connections between the receiver and the antenna and power supply (see section Rear panel and receiver connections) are done, the receiver will start, after which the first installation wizard will appear on the screen.

During the procedure, use:

- the arrow buttons ▼/▲ to move between entries,
- the arrow buttons ◀/▶ to select one of the options available,
- the OK button, while positioned on the field SEARCH to close the guided procedure.

Also follow any instructions described on the screen.

Below is a description of the various steps that define the settings to be made for proper operation of the receiver.

Step 1 - LANGUAGE

Setting the **Language Menu**, the **Main Audio**, and the **Main Subtitles**.

Step 2 - Nation

Setting the **nation**.

Step 3 – PIN CODE

Definition of a four-digit numeric password, called Personal Identification Number field (PIN) for parental control (section 6.4). Using the number buttons on the remote control, enter the code you want in the fields **New Password** and then confirm it in the **Confirm Password** field.

Step 4 – Search

Finish the installation wizard and move to the next phase (antenna Setting)

4 *ANTENNA SETTING*

Definition of the parameters of your antenna, fixed or motorized.

WARNING

If you do not know the characteristics of your antenna and/or you are unable to configure properly the receiver alone, we recommend that you consult a trusted professional installer.

The satellite that corresponds to TivùSat channels is HotBird 13° East, which also corresponds to the classical orbital position used for most Italian channels.

During the procedure, use:

- the arrow buttons ▼/▲ to move between entries,
- the arrow buttons ◀/▶ to select one of the options available,
- the OK button, to select the satellite or transponder.
- The BACK button to go back.

Also follow any indications that appear on the screen.

4.1 Single fixed satellite antenna system

After selecting the satellite, proceed with the following settings:

- LNB Type:** converter type (Low Noise Block converter-LNB) associated with the selected satellite. Satellite systems common in Italy are *Universal*.
- LNB Power:** allows you to deactivate the LNB converter supply, useful for example when you use IF-IF type of distribution systems (for expert users).
- 22K:** allows you to deactivate the 22kHz tone to switch between low and high band (for expert users).
- DiSeqC:** select Off.
- DiSeqC 1.1:** select Off.
- Motor:** select Off.
- Set TP:** transponder satellite image chosen for verification of signal through **Power** indicators and **Quality** visible in menu.

4.2 DiSeqC multi-satellite antenna systems

For every selected satellite proceed with following settings:

- LNB Type:** converter type (Low Noise Block converter-LNB) associated with the selected satellite. Satellite systems common in Italy use *Universal*.

LNB Power:	allows you to turn off the power to the LNB converter, useful for example when you use IF-IF type distribution systems (Advanced).
22K:	allows you to deactivate the 22kHz tone to switch between low and high band (for expert users).
DiSeqC:	Switching converter control associated with the selected satellite DiSeqC Protocol. Each satellite is to be associated with the correct position 1÷4 respecting its physical connection of the antenna to the DiSeqC switch.
DiSeqC 1.1:	Switching converter control associated with the selected satellite DiSeqC Protocol. Each satellite is to be associated with the correct position 1÷16, respecting its physical connection of the antenna to the DiSeqC switch.
Motor:	select Off.
Imposta TP:	Transponder satellite image chosen for verification of signal through Power indicators and Quality visible in menu.

4.3 Motorized antenna systems

LNB Type:	converter type (Low Noise Block converter-LNB) associated with the selected satellite. Satellite systems common in Italy use <i>Universal</i> .
LNB Power:	allows you to turn off the power to the LNB converter, useful for example when you use IF-IF type distribution systems (Advanced).
22K:	allows you to deactivate the 22kHz tone to switch between low and high band (for expert users).
DiSeqC:	select Off.
DiSeqC 1.1:	select Off.
Motor:	select: DiSeqC 1.2: from the field Set location you will have to manually move the Satellite antenna and store the position of each individual Satellite concerned, so that the receiver recalls the correct position during the search or channel tuning. USALS: from the Set USALS field, you will have to insert the latitude and longitude related to the place of installation of the satellite dish, confirm the location by selecting "go to" and pressing OK.
Set TP:	Transponder satellite image chosen for verification of signal through Power indicators and Quality visible in menu.

4.4 CHANEL SEARCH

To launch a channel search follow the steps listed below:

- Select the satellite using the buttons ▼/▲
- Confirm your selection by using the OK button

NOTE

For each satellite for which you want to carry out a channel search, you must repeat the operations of selection and confirmation.

- Press the **RED** button to start the channel search
- If you scan on a single satellite, you must select the type of search that can be:
 - TivùSat (only for HotBird 13° East): the search and sorting of the channels are carried out according to the rules established by the Tivùsat platform.

ATTENTIONE

If you want to use the automatic channel sorting function, we recommend that you use the search Tivùsat at first installation or after a factory reset; If you have used other types of scan (Auto or accurate), we recommend that you proceed with a reinstallation (paragraph 5.2)

- Auto: research is carried out following the transponder list stored on the receiver.
 - Accurata: the search is performed on all transponders available.
- Select any filter for the channels: All – Free (unencrypted) – Encrypted

Searching and storing requires several minutes. At the end, the receiver will automatically switch to channel viewing.

4.5 Channel Viewing

After installation, you will be able to immediately access the stored channels. To change the channel, you can do it in one of the following ways:

- Press the **CH +** and **CH-** on the remote control.
- Enter the desired channel number using the numerical keys **0-9** on the remote control.
- Press **OK** on your remote control to access the channel list, scroll to single channel using the arrow buttons ▲/▼ or per page with buttons ⏮ / ⏭ finally confirm the desired channel by pressing **OK**.

5 Menu

5.1 EPG

Recall the electronic TV/Radio program guide.

Some satellite television channels broadcast, in addition to the audio/video data, optional information about the daily or weekly programming schedule. These may be used by the receiver for an automatic definition of a timer (paragraph 7).

ATTENTION

EPG information are not transmitted by all channels. Failure to display all or some of the information does not indicate a malfunction of the receiver.

5.2 Installation

Search: accesses the menu to set the antenna and scan channels (see Chapter Fel: Det gick inte att hitta referensskällan)

Reinstall: erases all the previously stored channels and accesses the menu for setting the antenna and scanning channels (see Chapter Fel: Det gick inte att hitta referensskällan)

5.3 Edit Channels

Edit channels

Follow the instructions on the screen to create a custom channel list. You can modify the list by deleting the channels or block the vision with your PIN

Edit Favorites

Follow the instructions on the screen to create one to 4 favorite channels lists.

5.4 Settings

Language

Defines the menu, audio, and subtitles language.

Parental Control

The parental control function controls the viewing of some sensitive events. When the tuned channel transmits an event with security information for viewing by a public of an age that is equal to or greater than the age set in the menu, the receiver will block the channel. An Unlock viewing request will then appear on the screen by entering the PIN code (paragraph 4).

The default age level is 18 years of age; you can change the value from the PG Rating option.

From this menu you can also change the Password (PIN).

General

Defines the following parameters:

Auto shut-off: past a certain time frame (i.e. 3 hours, as per factory default) in operational mode without any user action, the receiver will automatically switch into standby mode.

OSD menu duration: defines how long the menu remains visible on the screen.

Time zone: local time offset relative to the reference given by the Greenwich Meridian.

OSD transparency: transparency of menu and channel info banner.

Audio/Video

Allows the definition of certain audio/video parameters to optimize the connection to the TV screen and/or sound system (amplifier or Home Theatre).

Audiodescription

Enable the audio track (additional) that express all the visual elements that the visually impaired or blind person cannot have access to such as costumes, settings, colors, facial expressions, physical characteristics and actions; You can set a volume for the above audio track (option **Volume**).

Factory reset

Resets the receiver back to factory settings. By choosing this option, any settings and stored channels will be erased.

Software Upgrade

Start updating receiver software if loaded in the main folder of the USB pen drive.

5.5 Information

Allows you to access the information in the CAM/Card inserted, on the receiver and on the channel being viewed.

5.6 Media Player**USB content**

Accesses files stored inside the USB memory connected to the receiver.

Recordings

Access the recordings made with the receiver.

Timer List

Access the Timer list, allows to add new ones, delete or edit existing ones.

PVR Settings

Defines the following parameters:

PVR icon duration: : duration of the symbol that identifies the start of a recording

Max record time: recording duration if it is started manually.

Warning before a reminder: the receiver shows a warning banner before a timer, this option allows you to set how long before the warning should be displayed.

Advance recording: determines how early a recording should start before the MediaPlayer/List menu setting made on the Timer or EPG.

Timeshift duration: determines how many minutes the temporary recording must last (Timeshift)

5.7 Memory info

In addition to providing information about the status of the USB memory (for example: Total or Used Space), it allows you to format the connected memory: after pressing the **RED** button, choose the format type **FAT32** or **NTFS** and confirm with the **OK** button.

5.8 USB speed test

Checks the data transfer rate of USB memory connected, showing the figure on the bottom bar.

6 Recording**Instant recording**

To start instant recording, tune in to the desired channel and press **REC**. To stop the recording manually, press **STOP** and confirm.

Scheduled recording

You can schedule multiple timer recordings manually from menu > **Media Player List Timer** or assisted by the EPG, limited and in accordance with information about events that are available there.

The programmed recording timer can be seen in the menu **Media Player>Timer list**.

6.1 Playback of recorded content

Recorded files are recorded in the USB device and can be recalled from the menu **Media Player>Recordings**.

Press **OK** at a recording for playback.

During playback, press the **PLAY/PAUSE** button to pause/resume watching, **REW/FWD** to rewind/fast forward and **STOP** to end. **NEXT/PREV** buttons allow you to navigate to the next/previous recording.

6.2 Timeshift

The Timeshift has the task of temporarily recording a program while watching it, until the next time you change the channel. This allows you to go back with the **REW** button, up to a maximum of one hour (depending on the limitations imposed by the broadcasters), and continue watching the event from the moment lost by pressing **PLAY/pause**.

Use the dedicated **TIMESHIFT** or **BREAK** button to enable the temporary recording feature.

NOTE

Enabling timeshifting causes the continuous operation of the connected mass storage.

7 Media Player

Media Player function allows you to:

- playback MPEG 2 and MPEG 4 video,
- listen to MP3 music and
- view JPEG photos,

from an external storage connected via USB.

When a USB storage device is connected, you will have to wait a little while because for the receiver to recognize the USB, the multimedia player will be available at the menu **Media Player/USB content**.

NOTES AND WARNINGS

- The receiver is compatible with USB memory devices that are formatted with FAT32 and NTFS file systems.
- If you want to use external hard disks, use an apparatus with external power supply.
- We cannot guarantee compatibility with all USB memory devices on the market and even with all types of files and multimedia codes.

Video

To play a video, navigate through folders of USB disk, highlight the file you want to play and press **OK** to start playback.

While watching, use the **▶/|| PLAY/PAUSE** keys to pause/resume watching, **◀/▶ REW/FWD** to rewind/fast forward, the arrow keys **◀/▶** to jump backward/forward 30 seconds and **■ STOP** to end viewing. In addition, in the presence of external subtitles, press the **SUB** to activate them and deactivate them.

Music

Navigate through folders of USB disk, select the file you wish to play and press **OK** to start playback

During playback, press **▶/|| PLAY/PAUSE** to pause/resume playback and the arrow buttons **▼/▲** to change tracks.

Photo

To view a photo, browse through the folders on the USB disk, highlight the file and press **OK** to open it. Then use the **YELLOW** button to recall/remove the overlaying list.

Use the arrow keys **◀/▶** to change photos.

8 Glossary

Timeshift	Function that has the task of temporarily recording a program by pressing the PLAY/PAUSE button until you change the channel. You can then resume watching the event on a delayed basis by using the PLAY/PAUSE button.
EPG	Electronic program guide is a system to help you with the choice of <u>television programs</u> , it offers, in addition to title, the programming time, the plot and general information on the programs transmitted by broadcasters.
PVR	Personal video recorder is a function that enables you to record a <u>TV program</u> .
GMT	Greenwich Meridian Time. This is the acronym that identifies the time <u>zone</u> of reference of <u>Earth</u> .
Parental Control	Parental control function implements a control over sensitive events. When the event transmitted contains an information for viewing of equal or greater value then the level set in the menu, the receiver automatically locks the vision.
Audiodescription	Transmission technology which allows visual products to be accessible for blind and visually impaired. An audio track describes the environments, the moods of the actors, the movements and all the elements that are perceived through sight by the non visually impaired.
USB Pen Drive	Portable mass storage device that connects to your computer via the USB port.
USB	Standards of serial communication that allows you to connect several devices using a single standardized interface and a single type of connector.

9 Troubleshooting guide

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
1. The receiver will not turn on (LED indicator on the front panel of the receiver is totally off)	-The mains lead is not plugged into the wall socket. -It is plugged in and the switch is in position I, but the box does not work anyway.	-Check that the plug is fully inserted into the wall socket. -After removing the plug, check power wire is not damaged
2. No Video or Audio signal	-The antenna signal is not there or is weak. -SCART/HDMI Cable or antenna cable disconnected or damaged. -Audio Volume low or zero. -The TV is not switched on the appropriate audio/video channel.	-Check the installation of the antenna and the quality of the received signal. -Check the SCART/HDMI connection and the antenna cable. -Check that the volume on the TV and the receiver are not zero. -Check that the TV is switched on the source that is connected to the decoder
3. Channels are not loaded	-Lack of antenna signal. -Your antenna system is not adequate to the digital terrestrial signal.	-Check antenna signal through the receiver. -Try a manual scan on a channel known.
4. Settings are not saved.	-They were not confirmed after a change of settings.	-Before you leave the menu, press the confirmation key.
5. The remote control is not working.	-The receiver is in standby. -The remote control is not pointed correctly to the infrared sensor of the receiver. -The batteries are low. -The batteries are charged but not inserted in the correct direction. -The remote control has been dropped and the internal components are damaged.	-Press ON/ST.BY the front panel to check the good operation of the receiver. -Check that there are no obstacles in front of the front panel. -Replace the batteries. -Check the correct insertion of the batteries. -Contact your dealer to purchase a new remote control.
6. The receiver does not interact with the remote control buttons.	-The receiver is temporarily blocked. -A broadcaster is transmitting wrong data.	-Disconnect the power supply for a minute and then restore it. -Reboot the box with the antenna disconnected, delete the problematic channel, then restore the antenna connection.
7. The USB memory is not recognized or does not work properly.	-Memory is not formatted correctly or not compatible. -Not enough memory speed for recording. -File type/unsupported code. -The receiver's USB port is not sufficient to power the memory.	- Go to USB menu
8. Timer/scheduled recordings are not working correctly.	-The receiver clock is not set correctly or the affected channels do not transmit a correct time.	- Adjust the time
9. the receiver switches off automatically.	- The Auto standby function is active	-Deactivate the energy-saving function.

WARNING

Generally, in the event of abnormal behavior of the receiver, a factory reset can help solve the problem.

10 Technical specifications

Product type	Digital satellite receiver DVB-S/S2 CI+ con USB
Video Decoding	MPEG2, MPEG4 H.264 (AVC), MPEG4 H.265 (HEVC)
Audio decoding ⁽¹⁾	MPEG 1 layer1/2/3, MPEG 2 layer1/2, Dolby D, Dolby D+
Input frequency	950-2150 MHz
LNB Switching	13/18V e 22KHz
LNB Control	DiSEqC 1.0,DiSEqC 1.1,DiSEqC 1.2, DiSEqC 1.3

Common Interface	CI/CI+
Display	•
Menu languages	Eng-Ita
OSD menu	•
Teletext (ETSI EN 300 472)	•
Subtitles(ETSI EN 300 706)	•
Electronic program guide (EPG)	•
RF Modulator	-
Video aspect ratio	Entire screen / 16:9 / 4:3 Pan Scan / 4:3 Letter Box
Coaxial Digital Audio Output (SPDIF)	•
Optical Digital Audio Output (SPDIF)	-
HDMI Output	v.1.4
TV SCART Output	Video RGB / CVBS, audio L+R
SCART Socket VCR	-
Connectors (RCA) Stereo Audio	-
Connector (RCA) Video	-
RS232 serial data port	-
USB Port	Front USB 2.0 - 5V, 500mA MAX
Supported USB memories (optional, not included)	HDD max: 1T Drives: max 1T
Reading media files via USB	Foto .JPG, Musica .MP3, Video MPEG2/MEPG4 (H.264/H.265)
USB recording	From the internal tuner.
Software update	Via USB
Factory reset function	•
Favorite channels list	•
Timer Programming	Switch on-off and recording
Auto-off (power saving)	• (can be deactivated)
Power supply	AC/DC adapter: in 220~240V50/60Hz, out 12V 1.5A
Consumption	Standby: <0,5W While on: Max18W with connected USB memory
Dimensions	200mm x 110mm x 38mm

(1) Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

(2) The words HDMI and High-Definition Multimedia Interface HDMI and the HDMI logo are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries.

Product Code
21005258

Digital Terrestrial Receiver DVB-S/S2 CI+ with USB
TELE System TS4502 S2CI+

CE Declaration of conformity

Tele System Digital declares under our sole responsibility that this product meets the essential requirements of European Directive 2009/125/CE Reg. # 1275/2008 (Energy related Products - ErP), 2011/65/EU (Restriction of the use of certain Hazardous Substances - RoHS), 2012/19/EU (Waste Electrical and Electronic Equipment - WEEE), 2014/30/EU (ElectroMagnetic Comptatibility - EMC) e 2014/35/EU (Low Voltage Directive - LVD) in accordance with the following technical standards:

- Electromagnetic compatibility (EMC):
 - EN 55032: 2012
 - EN 55020: 2007+A11:2011
 - EN 61000-3-2: 2014
 - EN 61000-3-3: 2023
- Low voltage (LVD):
 - EN 60065: 2014



Bressanvido (VI), 01 March 2017
Flavio de Poli / Presidente

A handwritten signature in black ink, appearing to read 'Flavio de Poli', is written over a light gray horizontal line.

ITALY

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