

# THOMSON

Empfänger für hochauflösendes  
Antennenfernsehen

**THT741**



Bedienungsanleitung  
User Manual

Fig. 1

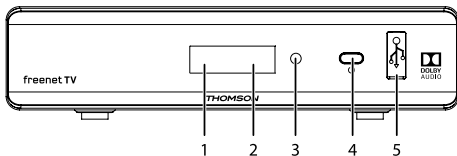


Fig. 2

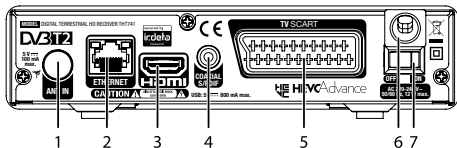


Fig. 3

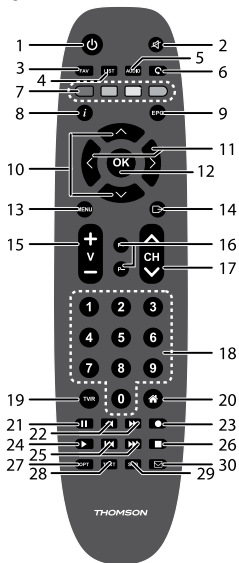


Fig. 4

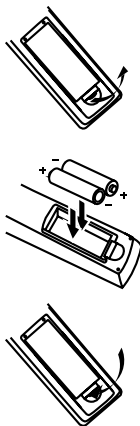


Fig. 5

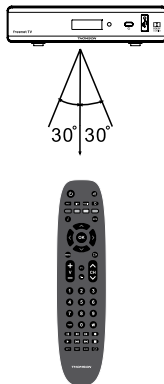


Fig. 6

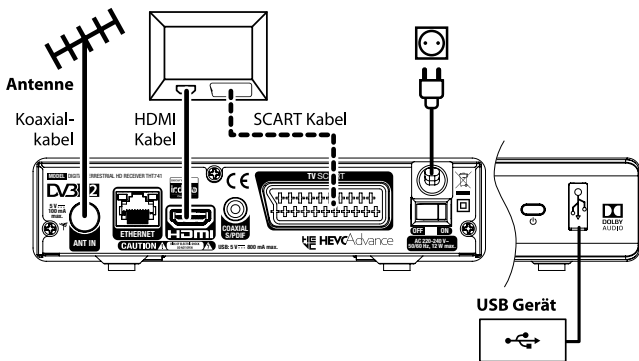


Fig. 7

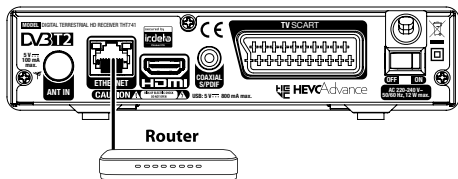
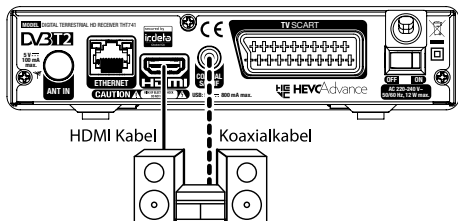



Fig. 8



# SERVICE

# CENTER

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€ 0,12/Min. österr. Festnetz

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Da rete mobile: € 0,49 cent. al min.  
15,6 € cent. scatto alla risposta**NL** support\_nl@thomsonstb.net**PL** support\_pl@thomsonstb.net 801 702 027**UA** support\_ua@thomsonstb.net +380 (44) 228 24 73

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# 1.0 INTRODUCTION

## 1.1 Safety Instructions

Read all of the instructions before operating the device. Keep these instructions well for later use.

- Only use attachments/accessories specified or provided by the manufacturer (such as the exclusive supply adapter, battery etc.).
- Please refer to the information on the product enclosure for electrical and safety information before installing or operating the apparatus.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspaper, table-cloths, curtains, etc.
- The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The mark  indicates a risk of electric shock.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
- Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent types.
- The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- Listening to music at high volume levels and for extended durations can damage one's hearing.
- In order to reduce the risk of damage to hearing, one should lower the volume to a safe, comfortable level, and reduce the amount of time listening at high levels.
- The mains plug or appliance coupler is used as disconnect device, it shall remain readily operable. When not in use and during movement, please take care of the power cord set, e.g. tie up the power cord set with cable tie or something like that. It shall be free from sharp edges or similar which can cause abrasion of the power cord set. When put into use again, please make sure the power cord is not damaged. The absence of a light indication on the apparatus does not mean that it is fully disconnected from the mains. To disconnect the apparatus completely, the mains plug must be pulled out.
- Attention should be drawn to environmental aspects of battery disposal.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
-  To prevent the spread of fire, keep candles or other open flames away from this product at all times.
-  Equipment with this symbol is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

### Precautions

- Never try to open the device. It is dangerous to touch the inside of the device due to high voltages and possible electrical hazards. Opening the device will void the warranty of the product. Refer all maintenance or servicing to suitably qualified personnel.
- When you are connecting cables, be sure that the device is disconnected from the mains supply voltage. Wait a few seconds after switching off the device before you move the device or disconnect any equipment.

- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the device.

### Operating Environment

- Do not install this equipment in a confined space such as a bookcase or similar unit.
- Do not use the set near damp, and cold areas, protect the set from overheating.
- Keep away from direct sunlight.
- Do not use the set near dust place.
- Do not attach candle to accessible opening area, to avoid flammable foreign material from entering the device.

### WEEE Directive



Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## 1.2 Storage

Your device has been carefully checked and packed before shipping. When unpacking it, make sure that all the parts are included and keep the packaging away from children. We recommend that you keep the carton during the warranty period, to keep your device perfectly protected in the event of repair or warranty.

## 1.3 Equipment Set-up

We recommend you to consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and, if applicable, your antenna.
- Make sure that the HDMI cable and, if applicable, outdoor components are in a good condition.
- If you use the TV SCART connection, use a well shielded SCART cable.

This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

**WARNING:**

Indicates warning information.

**NOTE**

Indicates any other additional important or helpful information.

**MENU**

Represents a button on the remote control or the receiver.

**(Bold characters)**

*Move to*

Represents a menu item within a window.

*(Italic characters)*

## 1.4 Accessories

- Installation instructions
- 1 remote control unit
- 2x batteries (AAA type)



**Warning:**

The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries. If rechargeable accumulators instead of batteries are going to be used (e.g. NiMH), we recommend using types with low self-discharge to ensure long time operation of your remote control.

## 1.5 Usage of external USB devices


- It is recommended to use USB 2.0 storage devices or higher. If your device is not compatible to USB 2.0 specifications, recording, playback and other multimedia functions of the receiver might not work properly.\*
- To ensure best performance of your USB storage device please format it via your receiver (through the menu *"Multimedia"*) to FAT32 system. Other file systems are not all supported by the receiver. However, it is possible to use already NTFS formatted disks.
- STRONG cannot guarantee compatibility with all types of USB storage devices.
- If you are going to use external USB HDDs (Hard Disk Drives), please consider that power specifications may exceed the supported output of your receiver (max.5 V/800 mA). If so, please connect your USB HDD to an according external power adapter.
- Playback of files cannot be guaranteed although extensions are listed, as it depends on codec, data bit rate and resolution used (all MPEG codec formats are supported).
- It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on your USB storage device before using it with this receiver. STRONG will not take responsibility for any loss of information or circumstances caused by loss of information.

\* This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed (available in our web shop: [www.thomsonstb.net](http://www.thomsonstb.net)).

## 2.0 YOUR RECEIVER

### 2.1 DEFAULT PIN: 0000

### 2.2 Front Panel

- |  |   |
|--|---|
| 1. IR Sensor   | Receives commands from the remote control   |
| 2. LED Display   | Shows channel number and time in standby  |
| 3. Mode IndicatorLED   | RED indicates that the receiver is in STANDBY mode. GREEN indicates that the receiver is in OPERATING mode. |
| 4.  | Switches the receiver ON or into Standby  |
| 5. USB   | To connect your USB storage device.   |

*Fig. 1*

### 2.3 Rear Panel

- |             |   |
|-------------|---|
| 1. ANT IN   | To connect to your antenna for reception of broadcast signals.                |
| 2. ETHERNET | To connect to your Ethernet cable (RJ-45) for RSS feeds and weather forecasts |

*Fig. 2*

- |                   |  |
|-------------------|--|
| 3. HDMI           | To connect your receiver with your TV-set using an HDMI cable.   |
| 4. S/PDIF Coaxial | To connect your receiver to a digital home cinema set, AV receiver or digital audio amplifier.   |
| 5. TV SCART       | To connect your receiver with your TV-set using a SCART cable.   |
| 6. Power cord     | Your receiver requires a supply voltage of 220 – 240 V AC (Auto-selectable), 50/60Hz +/-5%. Please ensure the local power specification meets these requirements before connecting your receiver to the wall outlet. |
| 7. Power switch   | To power your receiver ON or OFF   |

## 2.4 Remote control














- |   |  |
|---|--|
| 1.     | Switches the receiver On/Standby.<br>Quick press: passive standby – enables quick start-up. Long press (more than one second): active standby - longer start-up time |
| 2.     | Mutes all audio outputs of the receiver  |
| 3. FAV  | Opens the favourite group selection.   |
| 4. LIST   | Call the current channel list.   |
| 5. AUDIO  | Opens the audio* language selection  |
| 6.     | One step back in menu or back to previous channel.   |
| 7. COLOUR BUTTONS   | In different menus for specific functions  |
| 8. <i>i</i>   | Opens the current channel information; 2x opens the current event information and 3x the next event information.*  |
| 9. EPG  | Opens the EPG* (Electronic Programme Guide) in TV mode.  |
| 10.    | Change channel to next/previous.<br>Menu: Moves the cursor up/down.  |
| 11.    | Decreases/increases the volume level.<br>Menu: Change settings for specific menus.   |
| 12. OK  | Opens the current channel list in menu: for confirmation   |
| 13. MENU  | Opens the main menu, in a menu you will get one step back.   |
| 14.    | Exits from the menu or sub-menu.   |
| 15. V+/V-   | Increases/decreases the volume level.  |
| 16. P+/P-   | Page up/down in all list modes.  |
| 17. CH+/CH-   | Channel up/down.   |
| 18. 0~9   | Enter channel number in TV mode or value input in menu   |
| 19. TV/R  | Toggles between TV or RADIO mode.  |
| 20.  | No function  |
| 21.  | Hold play during playback/starting Timeshift mode**  |
| 22.  | Fast rewind/fast forward.  |
| 23.  | Starts recording of the currently watched programme**  |
| 24.  | Opens the multimedia menu  |
| 25.  | Jump function in multimedia playback   |
| 26.  | Stop playback.   |
| 27. OPT   | Opens quick menu to adjust screen settings   |
| 28. TEXT  | Opens the Teletext* if available   |

Fig. 3

29. SUB

Shows a list of subtitle\* languages.

30. 

No function

\* Subtitles, Videotext, EPG (Electronic Programme Guide), and Audio languages are depending on availability in the specific broadcast

\*\* This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed (available in our web shop: [www.thomsonstb.net](http://www.thomsonstb.net)).

## 2.5 Installing the batteries

Fig. 4

Open the cover on the remote control and insert 2x AAA type batteries into the compartment. Observe correct polarity of the batteries when inserting. A terminal diagram is shown inside the compartment.

1. Remove the cover
2. Insert the batteries
3. Place the cover.

## 2.6 Using the remote control

Fig. 5

To use the remote control, point it towards the front of your receiver. The remote control supports a range of up to 5 meters distance to the receiver at an angle of up to approx. 30 degrees.

### NOTE:

Managing the receiver will be limited or not possible if there are obstacles between the remote control sensor (at the front panel of the receiver) and the remote control. Direct sunlight or very bright light can reduce or disturb the reception of the remote control signals.

## 3.0 CONNECTION

### 3.1 Connecting to a terrestrial antenna

Fig. 6

To receive broadcast signals, your terrestrial indoor or outdoor antenna must be connected to the ANT IN connector on the back of the receiver. Use a proper shielded antenna cable and suitable connectors.

### Note:

If the signals at your location are too weak to receive proper signals with an indoor antenna, we recommend using an outdoor antenna which can be pointed towards the transmission tower. Ask your local dealer for more information. If you are using an active antenna with built-in antenna amplifier, switch the antenna power to *ON* in the menu *Manual Search*.

### 3.2 Connecting to TV with HDMI cable

Fig. 6

The TV set shall be connected to the receiver using a good quality HDMI cable. This connection gives the highest possible picture quality.

### 3.3 Connecting to TV with SCART cable

*Fig. 6*

Your receiver is also equipped with a SCART connector; alternatively, the TV set can be connected to the receiver using a good quality SCART cable.

### 3.4 Connecting a USB storage device

*Fig. 6*

This port can be used for USB storage devices such as USB pen drives or HDD with a maximum peak current of 800 mA. It is recommended to use USB 2.0 storage devices (or higher) for playback of video files or HD movies.

### 3.5 Connecting to Ethernet for RSS feeds and weather forecasts

*Fig. 7*

To use this option of your receiver it must be connected to your router. Connect the Ethernet (RJ-45) connector with a class CAT5E (or higher) cable to your router.

### 3.6 Extended connections for your home entertainment

*Fig. 8.*

#### Connecting to a Digital Audio Amplifier with S/PDIF

By connecting your receiver to a digital amplifier or home cinema set, you can enjoy the best possible sound quality and multi-channel audio (depending on broadcast). Connect your Digital Audio Amplifier or home cinema set with a suitable cinch cable to the S/PDIF connector on the back of the receiver. Alternatively, if you're using an analogue amplifier, then connect the audio output jack for stereo audio.

#### Connecting to a digital audio amplifier and TV using HDMI

By connecting your receiver to an HDMI equipped digital amplifier or home cinema set you will enjoy the best possible sound quality and multi-channel audio (depending on broadcast). Connect the HDMI output of the unit to an input of your amplifier, and then connect the HDMI output of the amplifier to your TV set. Select the correct input on your amplifier to watch and listen to programmes.

## **4.0 STARTING UP FOR THE FIRST TIME**

Make sure that your receiver and antenna are connected/aligned correctly. If you have any related questions accordingly, please contact your local service or retailer. Then switch your receiver "ON" by using the power switch below the main power cord.

The first time installation will guide you through the required steps, after that you will be able to enjoy your HD TV completely. If you already connected an Ethernet cable to your receiver, you can access RSS feeds and weather forecasts. We wish you lots of fun with your new product.

## 4.1 Language selection

When you use your receiver for the first time, the "Bevorzugte Sprache" (Preferred Language) menu appears. Use ▲▼ to select the desired language. Once you have selected your language, press the **GREEN Next** button to go to the next page.

## 4.2 Region, Subtitles, Scan Mode and screen settings

The receiver will now show the "First Time Installation" screen where you can adapt some of the most important settings. Use ▲▼ to move to the desired setting and use ◀▶ to change values. Press the **GREEN Next** button to go to the next page or press the **RED Back** button to go one step back. The following settings are available:

<i>Region:</i>	The region is pre-set to <i>Germany</i> . The receiver can only be used in Germany.
<i>Subtitle:</i>	Select <i>On</i> to display subtitles per default, select <i>Off</i> to hide subtitles per default.*
<i>Aspect Mode:</i>	Use this option to select the aspect ratio of the connected TV. The options are: 4:3 for a 4:3 TV (black bars on top and bottom of picture) and 16:9 for 16:9 TV sets.
<i>Scan mode:</i>	Select <i>All</i> to store scrambled and free-to-air channels or select <i>Free</i> to store only free-to-air channels.

\* Availability of DVB/HoH subtitles depends on the broadcast. If subtitles are not supported, they can be activated via Teletext if available.

When all settings have been made, press the **GREEN Next** button to continue.

## 4.3 Aerial Adjustment

This part of the wizard is of great help when setting up your antenna system.

Use ▲▼ to move the highlight to the setting you wish to change and use ◀▶ to change values. The following settings are available:

<i>Antenna Power:</i>	Set to <i>On</i> if you use an active antenna (with built-in amplifier). When set to <i>On</i> , 5 V will be present at the ANT IN connector of the receiver. Select <i>Off</i> for passive antennas.
<i>Channel No.:</i>	Select a channel that is known to carry a broadcast signal in your region. The <i>Signal Strength</i> and <i>Signal Quality</i> bars give a visual indication of the reception. Adjust your antenna to obtain maximum signal strength and quality.

When all settings have been made, press the **GREEN Next** button to start scanning.

The receiver will search for all available channels. When the scan is finished, the receiver switches to viewing mode. Now you can enjoy watching your favourite TV channels. If you get the message "No channels found", then check again the antenna, coaxial cable, connector and in menu if you have reception. When this has been checked, reset the unit and follow the installation wizard again as shown below.

### NOTE:

If the receiver won't start after switching on the receiver for the first time, reset the receiver to factory settings by pressing the **MENU** button and selecting *Load Factory Setting* in the menu *Installation*. (DEFAULT PIN: 0000).

## 5.0 QUICK GUIDE TO USING YOUR RECEIVER

We at THOMSON understand that you can't wait to enjoy your new high definition digital terrestrial receiver. The following quick guide will make you familiar with the basic operation of this device. We do, however, advise you to read the full manual to get the best performance from your receiver. Make sure the power switch on the back panel below the main power cord is turned ON. To turn your receiver ON or to Standby, press **⏻** on the remote control or the button on the right hand side of the front panel.

Choose the desired channel with **▲▼**. Alternatively, you can press the channel number with the **0~9** buttons on the remote control or press **OK** in viewing mode to display the channel list. The volume can be adjusted with **◀▶**.

## 6.0 OPERATION

Your new receiver is equipped with several features to make watching TV a true pleasure. This paragraph describes these features. Please do also read chapter 7.0 to get familiar with the menu of your receiver.

### 6.1 Changing channels

Following ways are possible for changing channels with your new receiver:

- Via direct access using the **0~9** buttons.
- Via the channel list through **OK** and the **PG+/PG-** buttons.
- Via the **▲▼** buttons.

#### 6.1.1 Direct access via 0~9 buttons

To gain direct access to a certain channel, simply enter its number with the **0~9** buttons on the remote control. Channel numbers can be up to four digits long. Entering a number with less than four digits is possible. Just wait a few seconds and your receiver will switch to the selected channel or press **OK** immediately after selecting the channel number.

#### 6.1.2 Channel list

Press **OK** in viewing mode to display the current *TV/list*. Use **▲▼** in the channel list to highlight your channel of choice and press **OK** to switch. Press **OK** again to leave the channel list mode. Inside the channel list it is possible to use the **PG+/PG-** buttons as well in order to scroll page-wise through the list to speed up.

#### 6.1.3 Using ▲▼

- ▲ switches to the next channel.
- ▼ switches to the previous channel.

### 6.2 Info Banner

While watching TV, you can press **INFO** at any time to access information about the current channel and event\*. Press **INFO** twice for extended EPG details about the current channel. Press **INFO** three times for EPG details of the next programme.

\* Event information is displayed when available. Availability depends on broadcast.

## 6.3 Selection of audio language

Some channels support a choice of audio formats and/or languages.

To select another audio stream, press **AUDIO** in viewing mode. A list of available audio streams will now be displayed. Use **▲▼** to select a stream and confirm with **OK**. The audio channel as stereo, mix, left and right can be selected with **◀▶**.

## 6.4 Teletext

To access the available Videotext, press the **TEXT** button in viewing mode and use the **0~9** buttons to enter the number of the page you wish to see. In case of availability you can also use the **COLOUR BUTTONS** of the remote control for direct access, as indicated on the bottom of the screen.

Use **▲▼** to select one page up or down, use **◀▶** to select subpages. Press **↔** or **TEXT** to get back to viewing mode. While in **TEXT** mode, use the **OK** button to select the level of the teletext transparency (five steps possible).

## 6.5 Subtitles

Some channels support a choice of subtitle languages. Press **SUB** in viewing mode to display a list of available subtitle languages. Select your subtitle of choice with **▲▼** and press **OK** to confirm. Press **↔** to leave without making changes.\*

\* Availability of DVB/Hard of Hearing subtitles depends on the broadcast. If subtitles are not present, they can be activated via Teletext (if available).

## 6.6 EPG (Electronic Programme Guide)

The Electronic Programme Guide is a very useful function that allows you to view event schedules and programme information and to mark events/movies for wakeup of the receiver. To access the EPG, press **EPG** in viewing mode. Use **▲▼** to select a channel and **◀▶** to select an event. Press **OK** to display detailed information of the selected event. Use **⏏** to quit the detailed information screen. Press the **RED** or **GREEN** buttons to see and select another day. Press the **YELLOW** button to set a timer for a selected event. Refer to section **7.3.4** for details of the timer function.

**Note:** Availability of EPG data depends on broadcast.

## 6.7 Record, Time shift and Format\*

\* This part of the user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed and activated. Please, visit our website [www.thomsonstb.net](http://www.thomsonstb.net) to get more information.

To use these functions, you must connect a USB memory device to the USB port at the rear panel. For best performance, especially of HD content, we advise to use Hard Disk Drives USB 2.0 or higher. These must be formatted in FAT32 format otherwise Recording and Timeshift function will not work.

### 6.7.1 Instant recording\*

To immediately record a programme, press **●** to start the recording and press **■** to quit.

## 6.7.2 Timeshift\*

If you want to use the Timeshift function you only need to press **II** in viewing mode. To resume timeshifted content, press **▶** or **II** again. During the playback, you can use the **◀▶** or **II** buttons. To stop the Timeshift mode, press **■** and it will jump to the actual time of the live signal. The function will still be running in the background and as long as you do not switch to another channel it is possible to jump again to the beginning by pressing **II** again. Also, with **◀▶** it is possible to jump in time during Timeshift modes. Default is set to 20 seconds. Press the **GREEN Jump Set** button to change the jump time.

If the channel is changed timeshifted content will only be accessible from the newly selected channel.

**NOTE:** To switch off the Timeshift function completely you need to change the Timeshift status to disable in the *Record setup* menu.

## 6.7.3 Timer recording

There are 2 ways to set a timer:

### Programming a record timer via the EPG

The easiest way to record an event is via the EPG. Press the **EPG** button to open the EPG, then use **▲▼** to select a channel. After that, press **◀▶** and use **▲▼** to select an event. You can book a record timer by pressing **●**. If you press **●** again on this event, the timer will be disabled. The set time of timer is fixed and cannot be modified.

### Programming a record timer via the Timer menu

If you want to programme a record timer via the timer menu, press the **BLUE** button from EPG to open it. You can also select it via the **MENU** button on the remote control in viewing mode, option *Timer* in the menu *Settings*. This way you are free to programme start and stop time. For further details about this menu, please refer to chapter **7.3.6 Timer** in the user manual.

## 6.7.4 Playback

After a recording has been made you will find a new folder *Records* created on your external USB storage device. By pressing **▶** in viewing mode you can access this folder directly. Inside the *Records* menu the following functions are supported:

- ▲▼** To select a recorded event.
- OK** Starts playback in preview and again in full screen mode.
- Stops playback
- RED** Opens the option menu to select and deselect for deleting a recorded file(s).  
This menu item opens only if you have selected first a file by using **▲▼**.  
Marks a recording for deletion. When all recordings you want to delete are marked, select *Deleted Selected* press **OK**. A message will appear to confirm deleting. By pressing **OK** again the recordings will be permanently deleted from your external USB storage device. Select *Cancel* if you don't want to delete them or select once more **OK** to definitely delete.

\* This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed (available in our web shop: [www.thomsonstb.net](http://www.thomsonstb.net))



## 7.0 MAIN MENU

The main menu gives you access to *Installation, Channels, Settings, Multimedia* and *Network* functions. To access the main menu, press **MENU** in viewing mode. Throughout the main menu, **⏪** can be used to get back to the previous screen and **⏩** to quit.

### 7.1 Installation of channels

Use **⏪** to select the main menu item *Installation*.

Use **▲▼** to highlight the submenu of choice and press **OK** to select. These submenus are available: *Manual Search, Auto Search, Information, Factory Settings* and *Freenet Menu*

#### 7.1.1 Manual Search

This menu allows you to search for channels at a specific Frequency or Channel number.

Use **▲▼** to select *Scan mode*, and select between *Free* which will only install Free-to-Air channels or *All*. This means that channels that are Free-to-Air or scrambled will be searched and stored.

Use **▲▼** to select *Channel No* and select the channel number of the frequency you'd like to search. Press **OK** to open a list to make selection faster.

The next option *Modulation* is to select between *Only DVB-T* or *DVB-T+T2* modulation type.

When in doubt, use the *DVB-T+T2* setting.

If you use an active antenna (with built-in amplifier), then switch the *Antenna Power* to *On*. If you use a passive antenna (without built-in amplifier), then select *Off*.

Highlight *Search* and press **OK** to start scanning. New found channels will be added to the channel list.

#### 7.1.2 Auto Search

This menu allows you to search for channels from all available *Frequencies* or *Channel numbers*. Be aware that all previous installed channels and favourite list(s) will be deleted. The new found channels will be installed in the channel list and afterwards you can create a new favourite list if you like.

Select *Scan mode*, and select between *Free* which will only install Free-to-Air channels or *All*. Highlight *Search* and press **OK** to start scanning.

#### 7.1.3 Information

This submenu shows receiver specific information such as hardware and software version. It also displays technical information from the currently selected channel and signal strength and quality. Please have the *Information* screen on hand when you call our hotline. The person who answers your call might ask for the information given in this screen.

#### 7.1.4 Load Factory Settings

This option allows you to reset the receiver back to the factory settings, which also clears all stored channels.

Use **▲▼** to select *Load Factory Settings* in the *Installation* menu and press **OK**. You are asked to enter your PIN code. Enter the correct PIN code using the **0~9** buttons. (**DEFAULT PIN: 0000**). A confirmation window is displayed. Select **OK** to load factory settings. Select *Cancel* to cancel. Press **⏩** to leave.

#### **WARNING:**

By resetting your receiver to factory default, all your settings and stored channels will be permanently deleted. Please use this option with care.

## 7.1.5 Freenet Menu

Read technical data about your subscription(s) and find messages from your provider. Moreover, you can check the rights to watch certain programmes. A Software update is signalled here too. Follow the instructions on screen. Some data given has no immediate meaning to a client, but is useful to a service centre or provider itself. This menu gives access to the following submenus which can be opened for detailed information about these items: *Service Status*, *Loader Status*, *Product Status*, *Client Status* and *Mailbox*.

### 7.1.5.1 Mailbox

This menu allows access to provider mails. It is used for sending important information from broadcaster/content provider to you. If you receive a mail you will get this message directly displayed on screen. After the mail has been removed from the screen you can find the messages within the menu and have the possibility to delete messages individually by pressing the **BLUE Delete** button or to delete all of them by pressing the **RED Delete ALL** button.

## 7.2 Channels

Use ◀▶ to select *Channels* in the main menu.

Use ▲▼ to highlight the submenu of choice and press **OK** to select.

### 7.2.1 TV Manager

This menu allows you to create favourite lists, move channels in order, lock channels with PIN protection and delete channels from the TV list.

#### 7.2.1.1 Adding channels to favourite lists

Channels from the *TV list* can be added to up to 4 different favourite groups. Select *Favourite* and press **OK**, select the wanted favourite group and press **OK** again. Use ▲▼ to select a channel you wish to add to a favourite group. When the highlight is on the channel of your choice, press **OK**. At the right hand side you will see your new created favourite list. If you like to remove a channel from a favourite list, simply press ▶ and select that channel and press **OK** to delete.

**Note:**

It is recommended to start with the selection of the channel you'd like to have at position 1 in the favourite list and then add others in the desired order one by one. However, sorting of favourite channels afterwards is possible by using the **GREEN Move** button, but only if the Logical Channel Numbering function is switched *Off*. In the new software versions this function is set to *OFF* by default (*Menu > Settings > General settings*), in case of doubt please update your receiver with the latest software version.

If the Logical Channel Numbering function is switched *On* channels can't be moved.

Press ⏪ to finalize the process. A confirmation banner will pop up. Select **OK** to save the changes or **Cancel** to discard.

### 7.2.1.2 Move channels in channel list

This receiver supports Logical Channel Numbering (LCN). This means that the channel numbers are operator defined and automatically sorted into the main channel list. Sorting in the main list is therefore not possible. In this case the *Move* function is marked grey and cannot be selected. The default setting for this function is *Off* and you are free to sort the channels in the main channel list. Further information about the functions *Automatic channel update* and *Logical channel numbering*, which have influence on the functions of channel management, can be found in the chapters 7.3.3.3 and 7.3.3.4.

#### Sort the channel order from the main channel list

Select the option *Move* and press **OK**. Use ▲▼ to select the channel you wish to sort onto first position. When the highlight is on the channel of your choice, press **OK**. This can be done with more channels until you are happy with the sorted order. To remove one channel from selection list, press ◀ and select in the "Selected" list the channel. Press **OK** to remove it. To store the new channel order, select in "Channel list" the position press the **RED** button *Move*. If you have only sorted a few channels and want to store this between existing channels, select in "Channel list" the position where the sorted channels need to be copied to.

### 7.2.1.3 Lock channels

Protect channels with a PIN code to prevent an unwanted watching of specific content/channels. Select the option *Lock* and press **OK**. Use ▲▼ to select a channel you wish to protect. When the highlight is on the channel of your choice, press **OK**. At the right hand side you will see your protected channel list. If you like to remove a channel from this list, then simply press ▶ and select that channel and press **OK** to unselect.

### 7.2.1.4 Delete channels

Delete a channel or channels permanently from the main channel list (until you make a new search). Select the option *Delete* and press **OK**. Use ▲▼ to select the channel you wish to delete. When the highlight is on that channel, press **OK**. At the right hand side you will find the selection to delete from channel list. When you are ready, press Ⓞ and confirm.

#### Note:

If the function "Auto Channel Update" is set to *On* it is not possible to delete channels. This function can be found in the menu *Settings* in the *General Settings* menu. See chapter 7.3.3.4.

## 7.2.2 Radio Manager

Create favourite lists, move channels in order, lock channels with PIN protection and delete channels from the radio list. The functions of handling are the same as in the *TV Manager* as described above. The only difference is that in the *Radio manager* there is no video information, so it will always display the radio background on the preview screen.

## 7.2.3 EPG

This menu item opens the Electronic Programme Guide (EPG). For details, see chapter 6.6

## 7.3 Settings

Press **MENU** in the TV mode and use ◀▶ to select *Settings*. Use ▲▼ to highlight the submenu of choice and press **OK** to select.

### 7.3.1 Language

This menu allows you to set up your language preferences.

- OSD Language:* Use ◀▶ to select the language for the On Screen Display.
- 1st Audio language:* Use ◀▶ to select the audio language you like to hear as first priority, if available.
- 2nd Audio language:* Use ◀▶ to select a language that will be played when the language selected at *1st Audio language* isn't available.
- Subtitle Type:* Select the preferred subtitle type to be displayed automatically. Select *Normal* or *Hard of Hearing\**
- Subtitle Display:* Select *On* to activate displaying of subtitles.
- 1st Subtitle Language:* Use ◀▶ to select the first preferred subtitle language.
- 2nd Subtitle Language:* Use ◀▶ to select the second preferred subtitle language.

\* Availability of DVB/Hard of Hearing subtitles depends on the broadcast. If such subtitles are not supported, then most likely subtitles can be activated via Teletext if available.

### 7.3.2 Output Settings

Use this menu to match your receiver to your TV set and/or home cinema set.

The following settings are available:

- HDMI Resolution:* Select the video resolution of your TV screen. The options are: *Auto* (automatic detection of video resolution offered to the receiver) and manual selections *480i*, *576i up to 1080p*. Please use a setting that matches the specifications of your TV. Selection above 576i is only applicable to the HDMI output.
- Aspect Ratio:* Select the aspect ratio of your TV. The options are: *4:3* for 4:3 screen and *16:9* for 16:9 TV sets.
- Aspect conversion:* Select the preferred conversion method. The options are: *PanScan*: displays 16:9 widescreen broadcasts in full screen on a 4:3 TV. *Letterbox*: black bars on top and bottom of the picture on a 4:3 TV. *Combined*: shows a mix in-between. *Ignore*: shows as it is.
- Connection:* Select the connection to your TV set. Select *HDMI* or *TV SCART*. *TV SCART* will provide RGB on SCART. If the connection type HDMI is selected, then only the CVBS signal will be available on the TV SCART.
- OSD Transparency:* To set the OSD transparency from *Off ~ 50%* with 10% steps.
- OSD Timeout:* Sets the time after which on screen banners and messages disappear. The range is *3~10* seconds.
- HDMI Audio Output:* Toggles between *PCM* and *Bitstream* output. When *PCM* is selected, all digital audio will be converted to stereo audio. *Bitstream* enables you to listen or transfer Dolby® Digital/Dolby® Digital Plus\* audio to the TV via HDMI or to a home cinema set.
- SPDIF Audio Output:* Toggles between *PCM* and *Bitstream* output. When *PCM* is selected, all digital audio will be converted to stereo audio. *Bitstream* enables you to listen or transfer Dolby® Digital/Dolby® audio to a home cinema set through coaxial *S/PDIF*. (Not Dolby® Digital Plus.)

**Audio Description:** AD. Set this option to *On* if you like to have support of an audio track that describes the content on screen. Useful for the visual impaired.

**Audio Description Volume offset:**

Select the volume from the AD audio track.



\* Dolby Digital Plus, Dolby Digital and the double-D symbol are registered trademarks of Dolby Laboratories

### 7.3.3 General Settings

This menu allows you to manage the basic system settings of your receiver.

It consists of the following sub-menus: *Standby Mode*, *Auto Standby* and *Auto Channel Update*.

#### 7.3.3.1 Standby Mode

You can select Active, Passive or Active+Passive mode. In Passive mode the unit will start up within about 3 seconds from standby mode. Set to Active mode, it will take about 35 seconds. Per default the Active+Passive combination is set so a short press on the  button of your remote will set the unit to Passive standby; a long press (1 second) on  will set the unit to Active standby mode. It is recommended to set your receiver to Passive Standby mode every now and then, to refresh all data and keep your unit up-to-date. In active standby mode, the power consumption is less than 1 Watt, in passive, less than 6 Watt.

#### 7.3.3.2 Auto Standby

Auto Standby is a new feature that helps you reducing power consumption.

Press   to highlight the menu *Auto Standby* and press **OK** advance.

When set to between *1 to 6 Hours*, the receiver will switch to standby if it doesn't receive any commands of the remote control during this time. Set *Auto Standby* to *Off* to deactivate the automatic standby function.

#### 7.3.3.3 Auto Channel Update

If this function is switched *On*, the unit will check if new channels are available before your receiver is switching to standby. When switching on the next time, you will be informed if new channels are on air and prompted to start an auto scan. This function allows you to keep the channel list up-to-date always. If you select *Off*, the automatic channel update function is deactivated and you'll be enabled to use the *Delete* function in the *TV Manager*.

#### 7.3.3.4 Logical Channel Numbering

This receiver supports Logical Channel Numbering (LCN). This means that the channel numbers are operator defined and automatically sorted into the main channel list. Sorting in the main list is therefore not possible. In this case the *Move* function is marked grey and cannot be selected. The default setting for this function is *Off* and you are free to sort the channels in the main channel list. As soon as the broadcaster supports this function you can activate it by setting it from *Off* to *On*. In this case the receiver will delete all current channels and favourite lists and start a fully new scan process. Please confirm the displayed message with **OK** to proceed.

### 7.3.4 Parental Control

This menu allows you to protect the installation menu and/or channels with a PIN code. You can also create a new PIN code. Use ▲▼ to select *Parental Control* from the *Settings* menu and press **OK** to proceed. You will be asked to enter your PIN code. (DEFAULT PIN: 0000)

- Menu Lock:* Locks the installation menu. You can set the *Menu Lock* to *On* or *Off*.
- Program Lock:* Switch all programme/channels lock to *On* or *Off*. If the lock is set in the *TV* or *Radio Manager* menu. You can select the lock separately for every channel which you like to protect it with a PIN code.
- Program Lock age:* Choose between: *Off Lock None*, *Lock All*, *4 years* and up to *18 years*. Channels with a parental rating above the chosen age will be protected with a PIN code (if available in your local broadcast.)
- PIN Code Change:* Press **OK** to enter the menu.
- Old PIN Code:* Enter your current PIN code (4 digits).
- New PIN Code:* Enter your new PIN code (4 digits) you'd like to use.  
(Make a note of it)
- Confirm:* Re-enter your new PIN code to confirm. Press **OK** to end and save the change.

### 7.3.5 Time Settings

Here you can set up your time zone for clock/time in your menu and system.

Use ▲▼ to move the highlight to the setting of choice. Values can be changed with ◀▶. Press ⏪ to leave.

- GMT Usage:* Set to *Auto* for broadcaster defined time depending of country selection you made in the *First Installation Wizard*. Normally, the clock/time will be correct and also follow up the summer time changes automatically. In some regions close to neighbouring countries it can happen that the wrong time zone is followed. In this case select the option *User Defined* to set up time manually in the next steps below.
- GMT Offset:* Allows you to adjust the time zone you live in. This option is only available when *GMT Usage* is set to *User Define*. The *GMT Offset* range is "-11:00 ~ +12:00".
- Daylight Saving:* Select *Off* or *On* to add one hour extra for summer time.

### 7.3.6 Timers

This menu allows you to set up to 10 timed events for waking up the receiver.

Use ▲▼ to select *Timer* from the *Settings* menu and press **OK** to enter.

The receiver will display a list with 10 timers, followed by their respective status. Select the timer you wish to set or change with ▲▼ and press **OK** to proceed.

The timer setup menu will now be displayed.

The following settings are available:

- Timer Status:* Choose between *Once* (Timer will wake up the receiver) or *Off* (Timer will not start the scheduled event).  
Also you can select *Monday-Friday*, *Daily* and *Weekly*.
- Timer Action:* Select *Booking* to wake-up the receiver and switch to the selected channel.  
Select *Recording* to start record from the selected event to an externally connected USB device.
- Channel:* Press **OK** to open the channel list and use ▲▼ to select the channel where the timer will wake up with.
- Start Date:* Use the **0~9** buttons to enter the date for the timed event.

<b>Start Time:</b>	Use the <b>0~9</b> buttons to enter the start time.
<b>Duration:</b>	Use the <b>0~9</b> buttons to enter the timer duration.
<b>Event Name:</b>	Displays, after you saved the timer, the event name according to the EPG information. This is only possible if EPG is available.

When all settings are according to your wishes, use **▲▼** to move the highlight to *Save* and press **OK** to confirm. To quit the timer without saving your settings press **⏏**.

## 7.4 Multimedia

The *Multimedia* menu consists of the following submenus: *Movies*, *Music*, *Pictures* and *Storage Device Setup*. Please, insert first a USB device and use **▲▼** to highlight the menu of choice and press **OK** to enter. Press **⏏** to quit or **⏪** to return to the previous menu.

### 7.4.1 Playback of Multimedia\*

This function allows playback of different kind of files from the connected USB storage device. In the *Multimedia* menu, select *Movies* and press **OK** to enter this menu to play all kind of video formats. Select *Music* to playback files as MP3, OGG and FLAC formats. Select *Pictures* to playback your favourite pictures in JPG or BMP format.\*

When entering the *Multimedia* menu, the highlight is on the root folder of the USB storage device. Press **OK** to open the directory respectively its folders/subfolders. On screen in the right upper corner the root folders are displayed for easier navigation. Press **▲▼** to select a file or folder and press **OK** to open the folder/subfolder (if applicable) or start playback of the file. Press **⏏** to exit or press **OK** to open in full screen.

Use the buttons like described below in order to choose functions during the different playback modes.

#### General:

<b>▶</b>	Start of playback of multimedia file.
<b>  </b>	To pause the playback of multimedia file.
<b>◀▶</b>	Fast rewind/fast forward.
<b>◀▶▶</b>	Jump function in playback modes of multimedia files.
<b>■</b>	Stop playback.

#### Movies:

<b>RED Subtitle:</b>	During the playback of a movie with external subtitles, press the <b>RED</b> button <i>Subtitle</i> to enter the subtitle menu. In this menu you can select size and colours of your preference.
<b>GREEN Jump:</b>	Press the <b>GREEN</b> button <i>Jump</i> to open the <i>Jump By Time</i> menu. You can select a time where you'd like to jump to.
<b>YELLOW Hide:</b>	Press the <b>YELLOW</b> button <i>Hide</i> to remove or call the timeline information banner.
<b>BLUE Audio:</b>	Toggles between <i>Stereo</i> , <i>Left</i> , <i>Right</i> and <i>Mono</i> audio channel output.

#### Music:

<b>▲▼</b>	Enter the folder with music files. Use the <b>▲▼</b> to select a file and press <b>▶</b> or <b>OK</b> to start playback. To stop playback press <b>■</b> .
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## Pictures:



Enter the folder with picture files. Use ▲▼ to select a picture. If the format is supported it shows the picture in the small picture-in-picture screen. Press **OK** to watch it in full screen mode.

**RED Option:** Before the playback of a picture in full screen, you can setup a slideshow/diashow. Press the **RED** button *Option* to enter the sub option menu *Slide change Time*. Select time of the slide show or switch this function off. After you select a time, press **OK** and show starts to play. Press the button to stop.

\* Playback of files cannot be guaranteed although extensions are listed, as it depends on codec, data bit rate and resolution used (all MPEG codec formats are supported).

## 7.4.2 Record Setup\*

This menu is only accessible if you connect a USB storage device. Here you can setup Timeshift and recording.

The following settings are available:

- Timeshift Status:** Choose between *Enable* to activate the Timeshift function or *Disable* to switch it off. This function will also automatically be set to *Enable* if you press **II** on the remote and have USB device connected.
- Timeshift Step:** Select the time size step in minutes and seconds which you like to make by using during navigation in Timeshift modes. Use the **0~9** buttons to enter the time.
- Timeshift Duration:** Select the maximal time (size) which is reserved for the Timeshift function. Use the **0~9** buttons to enter the duration.
- Record Duration:** Select the default maximum time for recordings that can be started with the button. Use the **0~9** buttons to enter the duration.
- Start Record earlier:** If you want to start the recording, set under timer from EPG some minutes earlier than the time obtained from the programme guide.
- End Record later:** If you want to stop the recording, set under timer from EPG some minutes later as time obtained from the programme guide.
- REC Icon:** If you start a recording, an icon will be shown in the left upper corner of your TV screen with the text "REC". Default is set to *On*. Select *5 Seconds* or *10 Seconds* to let the icon disappear after the selected time.

\* This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed (available in our web shop: [www.thomsonstb.net](http://www.thomsonstb.net)).

## 7.4.3 Storage Device Setup\*

This option shows relevant information about the connected USB device. In this menu you can also format your USB storage device and safely remove.

Select *Storage Device Setup* in the *Multimedia* menu and press **OK** to enter.

Now you will see all details as free and used space sizes and used file system.

Press the **RED Safely Remove** button and press **OK** to safely disconnect the USB device. The receiver will display a message indicating that you can now safely remove your storage device from the receiver.

Press the **BLUE Format USB Device** button to format the connected USB device.

Please, enter your PIN code to access this menu and press **OK** to start formatting.

Press to leave this menu.



**Note:** After performing the *Safely Remove* function, the USB device is no longer accessible by your receiver. To gain access to you're the storage device again, re-insert it or switch the receiver to standby and on again.

**Warning:** Formatting will permanently delete ALL data stored on the connected device. Please make a backup copy of all data you wish to keep before entering the *Format* menu. THOMSON cannot be held responsible for loss of data from USB devices used with this receiver.

**Note:** It is possible to use USB storage devices already formatted in NTFS.

\* This user manual describes the full functionality including the recording function and may not be applicable if the software for recording via USB has not yet been installed (available in our web shop: [www.thomsonstb.net](http://www.thomsonstb.net)).

## 7.5 Network

This menu consists of the following submenus: *RSS*, *Weather* and *IP Settings*. First connect a CAT5E (or higher quality) cable to the RJ-45 (ETHERNET) port of your receiver and ensure the other end is connected to the internet accordingly. If there are questions or problems with the internet connection, we recommend you to check details via the support or helpline of your internet provider.

Before you start to use the Internet functions please check the setup of the Internet connection via *IP Settings* menu and confirm *SET* with **OK**. Usually the Internet connection should now been established without any problem and ready to use. A message will inform you if the connection has been setup successfully or not, use **OK** to confirm and press **Q** to leave this menu.

Inside the menu use **▲▼** to highlight the submenu of choice and press **OK** to enter. Press **⏪** to quit or **Q** to go one step back.

### 7.5.1 IP Settings

This menu allows you to setup or check the Internet connection. The default selection is *DHCP* set to *On*. Normally the setup is done automatically by this. To test if the Internet connection works, select the item *SET* and press **OK**. If successful, a pop-up message box will show up and you can start using it. If not successful, then check your cable or router. Alternatively set *DHCP* to *Off*. Then manually enter your IP, Gateway and DNS values by using the **0 ~ 9** buttons. Select after entering these values the item *SET* and press **OK** to store and to check.

### 7.5.2 RSS Feed (Really Simple Syndication)

This menu allows you to choose an RSS news link to read the latest news from different sources. Use **▲▼** to highlight a link of your choice and press **OK** to enter. Select an item you want to read. Press **⏪** to quit. Also you have option to delete, add or edit an RSS feed of your own choice. Press the **GREEN** button *Add RSS Feed* to open the keyboard. Use **▲▼◀▶** to enter. If you need to use special symbols press **P+/P-**. To save the created RSS link, select at the end *Save* and press **OK**.

### 7.5.3 Weather

This menu allows you to watch the weather in your region. Use **▲▼** to highlight the menu item *Weather* from the *Network* menu. If you have correct Internet connection then the weather page will

show up with details on screen. Use the **YELLOW** button *City List* to open a selection list with main cities.

Use **▲▼** to highlight a major city near you and press **OK** to select. You can enter a city manually. Press the **GREEN** button *Change City* to open a keyboard. Use **▲▼◀▶** to enter. If you need to use special symbols, press **P+/P-**. To save the name, select at the end *Save* and press **OK**.

## 7.6 Software update

This receiver is equipped with different methods to update the software. It can be used to add new functions, improve functions and to keep the receiver up-to-date.

### 7.6.1 S/W Upgrade by OTA

The Over-The-Air (OTA) software upgrade function is checking automatically if new a version is available. If a new version is available then a message box appears on screen. Select **OK** to start download and update immediately. Select **⌚** if you like to update another time. An OTA update might not be available in your region. Please visit our website [www.thomsonstb.net](http://www.thomsonstb.net) or contact your local service hotline for more information about this option.

### 7.6.2 Upgrade by USB

This feature allows you to update the receiver software via the USB port. When a new software is available for your receiver, it can be downloaded from our website [www.thomsonstb.net](http://www.thomsonstb.net) Place the software file (unzipped) in the root directory of your USB storage device (HDD, memory stick etc.) and connect the device to the USB port of the receiver. First a message box will appear that a USB device is found. After a short time a message will appear on screen again with the message *New software available*. Select **OK** to start download and update immediately. When ready, the unit will reboot automatically.

**Note:** If, after a software update, the receiver should behave in an unexpected way, please perform a factory reset as well. See chapter 7.1.4..

**WARNING:** After an update the receiver restarts automatically. During the upgrade process NEVER disconnect the receiver from the mains or switch off the power! Doing so might damage your receiver and will void warranty!

**WARNING:** Old channel list and favourites will be overwritten.

## 8.0 TROUBLESHOOTING

There may be various reasons for abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your dealer or the local Service Hotline or send email to our Support via [www.thomsonstb.net](http://www.thomsonstb.net). Do NOT try to open or disassemble the receiver. It may cause a dangerous situation and warranty will be void.

Problem	Possible cause	What to do
LED indicator is not lit	The mains lead is unplugged or power switch on the back panel is OFF	Check the mains plug and the power switch on the back panel
No signal found	The antenna is disconnected The antenna is damaged/ misaligned Out of digital signal area Active antenna requires to switch ON the antenna power/ external power	Check the lead of the antenna Check the antenna Check with your dealer Switch the antenna power of the receiver ON/connect external power
No picture or sound on TV or amplifier	HDMI or SCART is not selected on your TV or amplifier or the unit is set to higher resolution as the TV supports. TV/amplifier is not connected to mains or switched off	Switch to correct TV/amplifier input Select lower resolution on receiver Switch TV/amplifier on. Check if S/PDIF connection is used.
Scrambled channel message	Channel is scrambled	Check if you have the rights to watch this channel
No response to the remote control	The receiver is off The remote control is not aimed correctly The front panel is obstructed The batteries of the remote control are exhausted	Plug in the receiver, turn on the plug and flick the power switch ON. Aim the remote control at the front panel Avoid obstructions Replace the batteries of the remote control
Forgotten Parental Control PIN code Forgotten channel lock code		Default PIN is <b>0000</b> Contact your local Service Hotline or send an email to our Support via <a href="http://www.thomsonstb.net">www.thomsonstb.net</a>
After moving the receiver to another room/area you are no longer able to receive digital reception	The antenna signals are too weak The signal strength/quality might be less than before, if using an indoor antenna	Press <b>INFO</b> on the remote control to check the signal bars on screen and adjust the antenna for (maximum) reception. Alternatively, do a rescan of the channels. When using an active antenna, check if the antenna power setting is <i>On</i> Try using an outdoor antenna
The receiver switches off automatically	The <i>Auto Standby</i> function is enabled	Disable <i>Auto Standby</i> . See section <b>7.3.3.2</b> for details.

Problem	Possible cause	What to do
Playback of video causes picture freeze/macro blocks or similar distortion, especially on HD content	The read speed of your USB device could be too low	Make sure to use a USB storage device with sufficient speed and space. Pen drives ("USB sticks") may not support sufficient speed.

## 9.0 TECHNICAL SPECIFICATIONS

### Demodulator

Demodulator:	QSPK, 16/64/256 QAM DVB-T2 (EN 302 755)
Transmission mode:	normal and extended

### Tuner

Front End:	DVB-T/T2, UHF Tuner
Input frequency range:	UHF: 474 ~ 786 MHz
Input signal level:	DVB-T2: -70 dBm ~ -25 dBm
Antenna power:	5 V DC, max. 100 mA, shortcut protected

### Video Decoder

Video resolutions:	576i, 576p, 720p, 1080i, 1080p
Decoding & Video out:	PAL
Aspect ratio:	4:3, 16:9
Conversion:	Letterbox, Pan Scan, Combine, Ignore.

### Audio Decoder

Audio support:	Dolby Digital Plus*/AC3+/PCM MPEG MusiCam Layer II
Sampling rate:	32, 44.1, 48 KHz
Audio mode:	Stereo, Mono

\* Dolby Digital Plus, Dolby Digital and the double-D symbol are registered trademarks of Dolby Laboratories

### Multimedia

Video playback:	MKV, MPEG-4/H264, HEVC/H265*
Audio playback:	MP3, FLAC, OGG*
Picture view:	BMP, JPG*

\* Playback of files cannot be guaranteed although extensions are listed, as it depends on codec, data bit rate and resolution used (all MPEG codec formats are supported).

### Connectors

ANT IN - IEC Female  
HDMI  
TV SCART (RGB, CVBS, Audio L/R)  
S/PDIF (coax.)  
RJ-45 Ethernet

USB 2.0 port: 5 V/800 mA (peak) supported

### General Data

Power supply:	AC 220 – 240 V ~ 50/60 Hz
Power consumption:	7 W (typ.), 12 W (max)
Power consumption in standby:	max. 1.0 W
Operating temperature:	0 °C ~ +40 °C
Storage temperature:	-10 °C ~ +50 °C
Operating humidity range:	10~85%, RH, Non-condensing
Size (WxDxH) in mm:	168 x 99 x 39
Weight:	0.35 kg

