

# SENCOR®

**SDB 1006T**

DVB-T Receiver

Přijímač DVB-T

Prijímač DVB-T

# DVB-T

USER'S MANUAL  
PŘÍRUČKA UŽIVATELE  
PRÍRUČKA POUŽÍVATEĽA

EN

CZ

SK



## Important safety instructions

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1. Read this user's manual.
2. Keep the manual for future use.
3. Heed all warnings.
4. Adhere to all instructions.
5. Do not use this device near water.
6. Clean the device only with a dry cloth.
7. Do not block the device's ventilation openings as described in this user's manual.
8. Do not install the device near sources of heat, such as heaters, heat exchangers, stoves or other devices producing heat (including amplifiers).
9. Do not try to circumvent the polarised power plug safety feature. If the supplied power plug cannot be inserted into your power socket, contact a qualified electrician to replace the old type of power socket.
10. Prevent the power cord from being stepped on or compressed, especially at the plug, electrical power sockets and at the location where it exits the device.
11. Use only accessories determined by the manufacturer.
12. Disconnect the device from the power socket during storms or if you will not be using it for a longer time.
13. Have all repairs carried out by qualified personnel. Repairs are necessary if the device has been damaged in any way, for example if the power cord or socket is damaged, liquid was poured on the device, foreign objects have entered the device, the device has been exposed to moisture, if the device is not working as usual or if it has fallen.
14. The main switch is used as a disconnection device. It must remain easily accessible and must not be blocked by obstacles.
15. Do not block ventilation by covering the ventilation openings by, for example, newspapers, a table cloth, drapes, etc.
16. Do not place sources of an open flame on to the device, e.g. lit candles.
17. It is necessary pay attention to the environmental impact aspects of battery disposal.
18. Use the device in a temperate climate zone.
19. The device must not be exposed to dripping or running water and objects filled with water must not be placed on it, e.g. vases.

**ATTENTION:** To prevent a fire hazard or injury by electrical shock, do not expose this device to rain or humidity.

**ATTENTION:** Batteries must not be exposed to excessive heat, for example sunlight, fire, etc.



This symbol indicates that there is dangerous voltage inside this device, which presents a risk of injury by electrical shock.



This symbol indicates that the literature accompanying the device contains important operating and maintenance instructions.



This symbol indicates that the device has double insulation between the dangerous voltage and parts accessible to the user. In the event of repairs use only identical spare parts.

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USB flash drives must be connected to the device directly. To prevent data transmission failure or its interference do not use USB extension cables.

If the device was exposed to an electrostatic discharge then its operation might be affected and it may need to be reset.



## Contents

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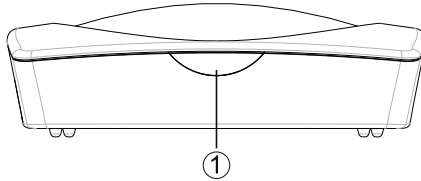
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Please, read the entire user's manual before installing, switching on and starting the device - it contains important information for safe use of all of its functions and features.  
Keep the user's manual in case of future need.

## Front and rear panel

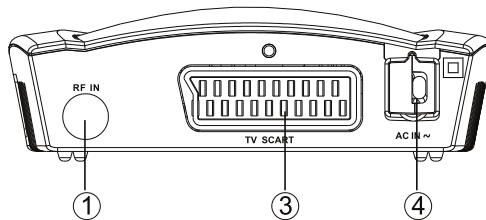
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### 1. Front panel



- ① Remote control sensor: Receives signals from the remote control.

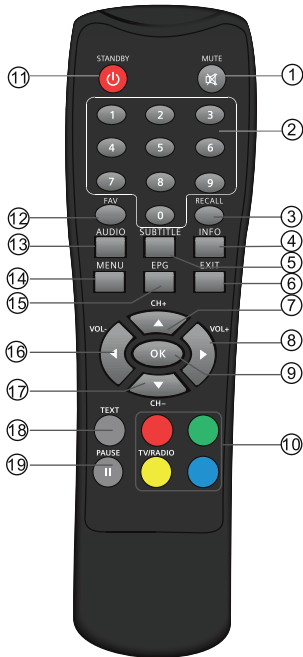
### 2. Rear panel



- ① RF IN connector: for connecting an outdoor TV antenna to the device.  
② TV SCART connector: output SCART connector for connecting the device to a television  
③ Power cord for connecting the device to the power grid.

## Remote control

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1. **MUTE** – used to turn audio on and off.
2. **NUMERICAL BUTTONS** - they are used to select channels or to enter numbers into a menu
3. **RECALL** – used to switch between the two previously view channels.
4. **INFO** – used to display information about the channel being viewed.
5. **SUBTITLE** – used to select the subtitle language.
6. **EXIT** – used to return to a previous screen or previous menu.
7. **VOL+** – used to increase the volume.
8. **CH+** – used to move in menu screens or to switch channels.
9. **OK** – used to confirm a menu item.
10. **COLOURED BUTTONS (RED/GREEN/YELLOW/BLUE)**: they are used to control the teletext mode or to control other functions (TV/RADIO: switching between television channels and radio stations).

11. **STANDBY** – used for turning the set-top box on and off.
12. **FAVORITE** – used to access your list of favourite channels.
13. **AUDIO** – used to set the output audio, available options include STEREO, LEFT, RIGHT – stereo, left, right.
14. **MENU** – used to open or close the main menu.
15. **EPG** – used to display information about the currently viewed program and about other programs.
16. **VOL-** – used to decrease the volume.
17. **CH-** – used to move in menu screens or to switch channels.
18. **TEXT** – used to display teletext on the television screen if teletext is available in the broadcast channel.
19. **PAUSE** – used to pause and resume playback of the channel being viewed.

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### Note:

subtitles, teletext and language selection may not be available on channels.

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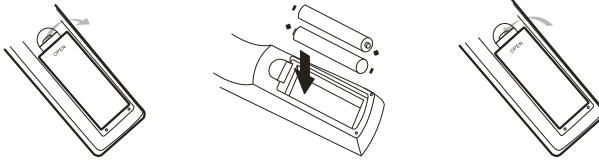
## Remote control

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### Inserting batteries into the remote control

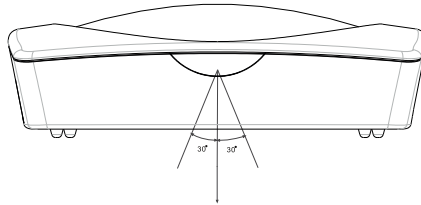
Remove the battery compartment cover on the rear side of the remote control and place 2x AAA batteries into the battery compartment. The correct battery polarity is indicated in the battery compartment.

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



### Using the remote control

When using the remote control, point the remote control at the front panel of the device and then press the button with the required function. The effective range of the remote control is up to 7 meters at an angle of  $60^\circ$  under optimal conditions.



There must be no solid obstacles in the area between the remote control and the device when the remote control is being used.



**Direct sunlight or strong lighting reduce the sensitivity of the remote control sensor.**

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## Connecting the device

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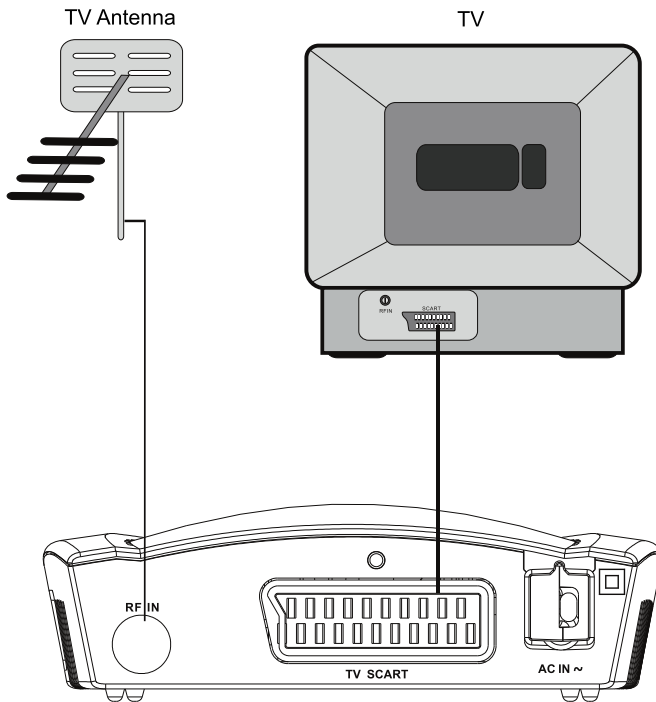
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### Attention:

Before connecting the device to the power grid check (e.g. on the label of the power meter) that the voltage in the power grid where the product is installed corresponds to the voltage specified by the device's manufacturer for its power supply, which is noted on the rear side of the device's case or in the documentation included with it.

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## Connecting to a television



### Note:

Before connecting other devices to the device learn about the instructions for its use in the user's manuals for these devices. Before connecting this device and the connected devices it is necessary to turn off and disconnect it from the electricity grid.

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## Quick installation

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### 1. Quick installation

#### 1.1 Selecting the country of installation and menu language

In the SETUP menu specify the device's country of installation and the language for the menu and TV screen messages.

- (1) Press the MENU button to display the main menu (**Main Menu**) on the screen.
- (2) Use the left/right buttons to select the **SETUP (Setup)** menu
- (3) Use the up/down arrows to select **Installation (Installation)**
- (4) To display the Installation screen press the OK button
- (5) Use the up/down arrows to select **Country (Country setup)**.
- (6) Use the left/right buttons to select the device's country of installation.
- (7) Use the up/down arrows to select **OSD Language (OSD Language)**.
- (8) Use the left/right buttons to select a language for the menus and messages on the TV screen. The user's manual assumes the selection of English.

#### Scanning for TV channels and radio stations

To receive TV channels and radio stations it is necessary to scan for them and to scan their broadcast frequency bands.

To start automatic (**Auto Scan**) or manual (**Manual Scan**) scanning for channels, press the red or green button.

#### Auto Scan

Automatic scanning for channels will first delete the already existing list of channels and then it will start scanning through the frequency bands specified by the country selection performed during the installation of the device in step no. 6 of the procedure described in paragraph 1.1 of the preceding text. Perform steps no. 1 - 8 of the procedure described in paragraph 1.1.

- (9) To confirm the deletion of the program list press the red button.
- (10) Confirm the displayed question with the OK button - see Fig. 1. The automatic channel scan will start.

Scanning the channels requires a certain amount of time. Once complete the information will be displayed on the screen. To end the channel scan while it is running, press the EXIT button (possible at any time). If necessary you can repeat the quick installation procedure at any time.

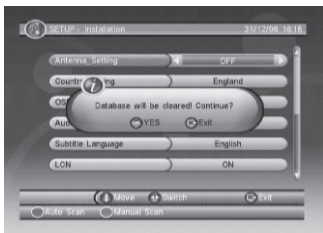


Fig. 1: Confirmation of the channel list deletion

## Quick installation

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### Manual Scan

Channels found using the manual scan function (Manual Scan) are added to the channel list. When this channel scanning method is used the existing channel list is not deleted. The use of this function supposes that the frequency (**Frequency**) and the bandwidth (**Bandwidth**) are already known. When repeatedly scanning the same frequency with the same bandwidth the results of the new channel scan will overwrite the existing results of previous scans.

The indicators Strength (Strength) and Quality (Quality) display the current signal status according to the reception parameter settings. The determining factor for a reliable reception is namely the high value of the Quality (Quality) indicator.

Perform steps no. 1 - 8 of the procedure described in paragraph 1.1 and continue according to the following instructions:

- (9) To display the manual channel scan (**Manual Scan**) screen - see fig. 2, press the green button.
- (10) Use the up/down arrows to select **Frequency**.
- (11) Use the numerical buttons 0-9 to enter the frequency that you wish to scan.
- (12) Use the up/down arrows to select **Bandwidth**.
- (13) Use the left/right buttons to enter the bandwidth value.
- (14) To start the channel scan press the OK button. Wait until the scan is completed. To cancel the channel scan press the EXIT button.

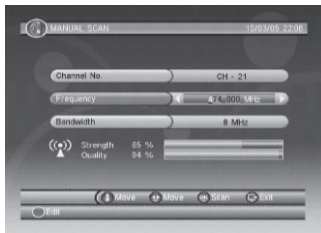


Fig. 2: Manual Scan editing screen

## Using the menu

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### 2. Using the menu

After completing the channel scan and storing all found channels in a channel list you can receive programs from terrestrial digital TV and radio. This chapter presents some of the custom user settings.

#### 2.1 Main Menu (Main menu)

The main menu enables the user to set a whole range of functions.

- (1) To display the main menu, press the MENU button.
- (2) To display information about the software version of the device, press the INFO button.

#### 2.2 SETUP (Setup)

The SETUP submenu enables a range of settings of the device.

##### 2.2.1 Installation (Installation)

For setting up functions related to TV and radio reception.

###### 2.2.1.1 Antenna Setting (Antenna Setup)

This function is used to turn the power supply of the antenna preamplifier at a voltage of 5V on or off (if installed).

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#### Note:

This function is turned off (Off) by default. Turn this function on if you connect an active antenna to the device, which has an amplifier that can receive a digital signal.

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###### 2.2.1.2 Country Setting (Country Setup)

This setting is used for automatic channel scanning (Auto Scan), manual channel scanning (Manual Scan) and for setting the time zone (Time Zone).

For channel scanning the country of installation setting specifies the frequency and broadcast bandwidth for scanning.

###### 2.2.1.3 OSD Language (Language for menus and messages on the TV screen)

The user's manual assumes the selection of English.

###### 2.2.1.4 Audio Language (Audio language)

If the selected language is not available, the audio language that is used will be the one with priority for the received TV channel (Czech for Czech channels).

###### 2.2.1.5 Subtitle Language (Subtitle language)

If the selected language of the received TV channel is available then it will be used.

###### 2.2.1.6 LCN (Logical channel number)

This function can be turned on (On) or off (Off).

LCN is a number which unequivocally identifies a TV channel.



## Using the menu

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### 2.2.1.7 Auto Time Zone/Time Zone (Time zone)

If you know the difference between the local and world time, set the function **Auto Time Zone** to **Off** and then in the field **Time Zone** specify the time zone of the device's installation location. If you do not know the difference between the local and world time, set the function **Time Zone** to **Off** – the time zone will be set automatically.

### 2.2.1.8 Auto Scan (Automatic channel scanning)

To start it, press the red button. You will find detailed information in paragraph 1.2.1.

### 2.2.1.9 Manual Scan (Manual channel scanning)

To start it, press the green button. You will find detailed information in paragraph 1.2.2.

### 2.2.2 TV Setup (Television setup)

For setting the picture function – see fig. 3.



Fig. 3: TV Setup

#### 2.2.2.1 TV Format (Picture format)

Function for setting the aspect ratio of the TV picture – options include **4:3 LB**, **4:3 PS**, **16:9 PB**, **16:9 Auto**.

**4:3 LB:** For displaying a picture with a 16:9 side ratio on the television screen with a 4:3 side ratio. There will be a dark band at the top and bottom of the screen.

**4:3 PS:** For displaying a picture with a 16:9 side ratio on the television screen with a 4:3 side ratio. The picture will fill the entire screen, however the left and right parts of the picture will be missing.

**16:9 PB, 16:9 Auto:** For displaying a picture with a 16:9 side ratio.

## Using the menu

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### 2.2.2.2 TV MODE (TV system)

Function for the selection of a TV system - options include PAL, NTSC or AUTO. The selection must correspond to the system used by the connected television.

### 2.2.2.3 OSD Transparency (OSD transparency)

Sets the transparency of menus and messages displayed on the TV screen. Setting 1 represents the highest transparency.

### 2.2.2.4 Banner Display Time (Time for which the banner is displayed)

For specifying the time (in seconds) for which the information banner will be displayed on the screen. When **Always** (Always) is selected the banner will remain displayed permanently or until you turn it off with the EXIT button.

### 2.2.2.5 Video Output (Video output)

For specifying the type of output video signal for the television.

**2.2.2.6 Video Enhancement** (Video enhancement) Function for fine adjustment of the picture - see fig. 4.

- (1) Use the up/down buttons to select Video Enhancement.
- (2) Press the left or right button.
- (3) Use the up or down buttons to select Flesh Tone (Skin tone) or Black / White Expansion (Expansion of the picture's black and white range).
- (4) Use the left or right buttons to select Flesh Tone (Skin tone) or Black / White Expansion (Expansion of the picture's black and white range).



Fig. 4: Video Enhancement

### 2.2.3 Password (Password)

Function to turn the password on/off - it is used e.g. for blocking access to menus, channels or programs. This screen is also used to change the password (factory set to **6666**) to a different four digit number selected by the user.

#### 2.2.3.1 Menu Lock (Block access to a menu)

Function for blocking access to the setup menu. For access to the menu a valid password will need to be entered.

## Using the menu

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### 2.2.3.1 Channel Lock (Block access to a channel)

Function for blocking access to channels, which you lock in the channel list. For access to the blocked channel a valid password will need to be entered.

### 2.2.3.3 Censorship Lock

Function for blocking access to TV programs - it uses the access limit rating (a part of the transmitted information). To watch a program with a higher than specified access limit rating a valid password will need to be entered.

### 2.2.3.4 Change Password (Change the password)

To change the password select the function **Change Password** and press the left or right button and then gradually enter the old password (**Old Password**), new password (**New Password** - an arbitrary four-digit number chosen by the user) and confirm by reentering the new password (**Confirm Password**). Successful password change will be confirmed by the message **PIN Code Changed**, and an error will be indicated by the message **PIN Code Error**.

### 2.2.4 Advance Timer (Timer)

Channel parameters for the automatic switching of the device to receive a desired program (date, time, etc.) can be entered manually, or you can take this information from the **EPG** (Electronic TV program guide - see paragraph 2.3.2).

When the programmed date and time occur, the device will automatically turn itself on and switch to the specified channel.

If necessary the advance timer can be cancelled. To end the reception of the programmed channel, press any button (with the exception of VOL +/- a MUTE).

### 2.2.5 Set Default (Reset to factory settings)

This function will change all the devices settings back to the factory settings and all TV channel and radio station lists will be deleted.

### 2.2.6 SW Update (Optional) (upload SW - optional)

Using a connected USB device you can update the software. Enter the file manager and using the left / right / OK buttons change the directory and select a file with the software and press the OK button to confirm and the software will be uploaded.

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#### Note:

**This function is not available on all models.**

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## Using the menu

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### 2.3 TV/Radio

Apart from DVB-T TV channels the device can also receive digital terrestrial radio stations. The scanned radio stations are stored in a radio station list. You can receive information about radio programs using the EPG, etc.

#### 2.3.1 List TV, Radio (List of channels)

After displaying the list of channels - see fig. 5 it is possible to edit it. The following text will provide information about the channel editing function.



Fig. 5: List of TV channels

#### 2.3.1.1 Favorites (Favourites)

To quickly search through frequently viewed channels you can create a list of your favourite channels, which is, for a better overview, sorted according to genres into groups (Groups). There are 8 channel groups available: News (news), Sport, Movie (films), Music (Music), Shopping (shopping), Travel (travel), Boy (boys) and Girl (girls).

#### 2.3.1.2 Lock (Lock)

When the **Channel Lock** function is on (**On**) (Setup → Password → Channel Lock) you will be required to enter a valid password to access a blocked TV channel. To confirm/cancel the blocking of a TV channel use the OK button.

#### 2.3.1.3 Edit (Edit)

You can give names to the channels stored in the list of channels (max. 20 characters), the name can be changed or deleted if necessary.

- (1) Use the left/right buttons to select **Edit** and then the up/down buttons to select the channel you wish to edit from the list.
- (2) To display information about the channel press the OK button, press the button again to continue editing.
- (3) To enter the name of the channel use the up/down, left/right buttons, number buttons and if necessary the green and red buttons.
- (4) To finish editing and to switch to the channel information screen, press the OK button.
- (5) To save the name of the channel to memory, press the red button, to return to the channel list without saving the performed changes, press the EXIT button.

## Using the menu

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### 2.3.1.4 Move (Move)

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**Note:**

This function is not available when the **LCN** function is on (**On**) (Setup → Installation → LCN).

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### 2.3.1.5 Sort (Sort)

Channels stored in the channel list can be sorted either alphabetically by their names (**A** ← → **Z**) or by their access properties (**Pay** (paid) ← → Free (free)).

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**Note:**

This function is not available when the **LCN** function is (**On**) (Setup → Installation → LCN).

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### 2.3.1.6 Skip (Skip)

When the TV channel list skip function is turned on (On) the channels with the skip activated will be skipped when scrolling through the channel list using the CH +/- buttons. To activate/deactivate the channel skip use the OK button.

### 2.3.1.7 Delete (Delete)

This function is used to delete a selected channel (Delete One) or all the channels (Delete All) in the list. To add a deleted channel back to the channel list it is necessary to repeat the channel scan.

After selecting the desired channel delete option (Delete One or Delete All) press the OK button.

### 2.3.1.8 Search (Search)

This function is used to search for the name of a desired channel from the list by entering the first character of the name.

- (1) Use the left/right buttons to select **Search**.
- (2) Press the OK button.
- (3) Use the left/right, up/down buttons or the number buttons or the green/red buttons to select the required character.
- (4) To search for a corresponding channel in the list press the OK button - channels that correspond to the entry will be highlighted in the list.
- (5) To select the desired channel use the green or yellow button.

### 2.3.2 Guide (Electronic program guide)

This function is called **EPG** - see fig. 6.

- (1) Use the up/down buttons to select a channel or an EPG event.
- (2) To change the event or data use the left/right buttons.
- (3) To display detailed information about the selected event press the OK button.
- (4) To switch to the previous menu press the EXIT button.

## Using the menu

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Fig. 6: Guide - event

- (5) Press the red button to go to the **Book** (booking) screen and to store the results of the editing press the yellow button. In the event of a overlap with another programmed event an error message will be issued. A successful booking will be added to the advance timer channel list (Main Menu → Setup → Advance Timer) - see paragraph 2.2.4.

### 2.4 ACCESSORY (Accessories)

There are 3 options available: **Gomoku** (noughts & crosses), **Calendar** (calendar) and **Calculator** (calculator).

#### **Gomoku** (noughts & crosses)

- (1) To specify the difficulty and game mode use the up/down and left/right buttons.
- (2) To start the game press the OK button.
- (3) To select a position use the up/down and left/right buttons.
- (4) After selecting a position press the OK button.

**Calendar:** When this option is selected the year, month and date will be shown.

**Calculator:** The calculator is used for mathematical calculations.

## Operation of the device

### 3. Operation of the device

Operation of the device means its use for the reception of TV or radio - see fig. 7.



Fig. 7: Operation of the device - radio reception

#### 3.1. Information about the received channel

To display information about the received channel (channel number in the list of channels, assignment of the channel to the favourite channels list, name of the channel, the program that is currently being broadcast and the program coming up, blocking of a program, coding system, information about subtitles and teletext) press the INFO button - see fig. 8.

To display more detailed information about the channel being broadcast press the INFO button again.

Press the INFO button again to see technical information about the channel being received and the signal.

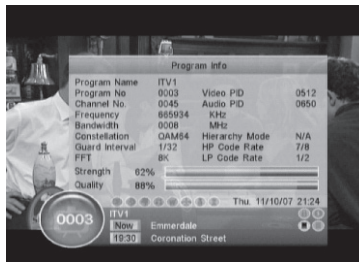


Fig. 8: Information about the program

#### 3.2 Switch to another channel

To gradually select a channel from the list use the CH +/- buttons, for direct selection of a channel use the number buttons. If a selection does not exist, it will be ignored.

To switch to the channel watched prior to switching to the currently viewed channel, use the RECALL button.

## Operation of the device

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### 3.3 Setting the volume

To set the volume use the VOL +/- buttons.

To immediately turn off the audio and to resume the previous volume level, press the MUTE button. Muting of the device will be changed when the volume is changed using the VOL +/- buttons.

### 3.4 Program List (Channel list)

To display the channel list (Program List) press the OK button. A part of the list is information about the order of the channels in the list, names of the channels, information about skip activation, channel reception coding system, blocking status and about channel skip settings. To leave the list and switch the device to the normal mode, press the OK button.

### 3.5 Audio

To select the desired audio language use the menu (Setup Installation Audio Language). If the selected language is not available for the received program, the language that is used will automatically be the one with priority for the received TV channel (Czech for Czech channels).

Use the up/down buttons to select a PID channel/PID audio or the audio mode **Sound Mode**, to set the value of the selected function use the left/right buttons.



Fig. 9: Audio channels

### 3.6 Pause (Pause the video)

To pause the picture and immediately mute the sound, press the PAUSE button. Press any button to cancel the function.

### 3.7 Favourite channel lists (Favorites)

You can enter frequently watched channels into favourite channel lists, consisting of 8 channel groups (based on their genre). Detailed information about favourite channels is provided in paragraph 2.3.1.1. To select the desired group of favourite channels use the yellow button, to select a channel from a favourite channel group use the CH +/- buttons.



## Operation of the device

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### 3.8 Teletext

The way teletext information is displayed depends on the provider of the TV channel - see fig. 10. During TV reception press the TEXT button - a teletext setup screen will appear on the screen. To select a character map for displaying teletext information use the up/down buttons. To leave the teletext setup screen, press the EXIT button.



Fig. 10: Teletext setup screen

### 3.9 Subtitles

The way subtitles are displayed on the TV screen depends on the provider of the TV channel - see fig. 11.

To display the subtitle setup screen, press the SUBTITLE button.

To select a subtitle language use the up/down buttons.

To leave the subtitle setup screen, press the EXIT button.

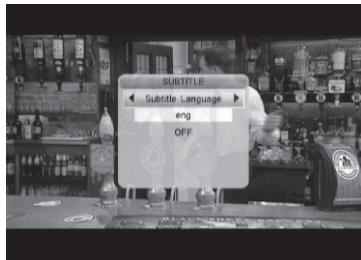


Fig. 11: Subtitle setup screen

### 3.10 Reception of subtitles broadcast by teletext

The way subtitles broadcast by teletext are displayed depends on the provider of the TV channels.

To display the teletext setup screen or teletext pages, which are receiving the subtitles, press the SUBTITLE button.

Use the left/right buttons to select **TTX Subtitle** (TTX subtitles).

Use the up/down buttons to select a language for the subtitles.

To leave the teletext subtitle reception setup screen, press the EXIT button.

## Operation of the device

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### 3.11 TV program guide

To display EPG information (electronic TV program guide) press the GUIDE button while the TV is receiving a channel. For detailed information see paragraph 2.3.2.

### 3.12 Messages

There are several messages used to inform the user about the current status of the device.

#### 3.12.1 No signal

The device is not receiving a signal, e.g. a cable is disconnected.

#### 3.12.2 No service

The channel has no content which it can playback.

#### 3.12.3 Service is coded

This is a coded and paid channel, it is necessary to contact the content provider and find out how to decode the channel.

#### 3.12.4 Antenna is overloaded

The antenna power supply is overloaded.

#### 3.12.5 HDTV not supported

If the program content is in HDTV format, this device does not support it.

#### 3.12.6 Channel locked

A channel is locked by a lock being set (see section 2.3.2.1) and the channel lock activation is protected by a password (see section 2.3.2.2). The user must enter the correct password to view the channel.

## Troubleshooting

If you have a problem related to the installation and operation of this device, please first read the relevant section in the manual and then the instructions contained in this chapter. It is possible that you will be able to remedy the problem yourself.

<b>Problem</b>	<b>Possible cause</b>	<b>What to do</b>
The STANDBY indicator light is not lit	The device is not connected to the electrical power grid.	Check the device's connection to the electrical power grid.
	A power fuse has burned or a circuit breaker is deactivated.	Check the fuse/circuit breaker.
No signal available	The antenna is disconnected.	Check the antenna connection.
	Damaged or incorrectly turned antenna.	Check the condition and direction of the antenna.
	The device is installed outside the range of DVB-T transmitters.	Consult the matter with the vendor from whom you bought the device.
No picture or audio	Incorrect setup of the SCART connector output.	Press the DTV/VCR button.
	No channels found.	Scan for TV channels.
Checkering of the picture, freezing of the picture on the screen	Inappropriate antenna, weak signal.	Check the antenna.
Message "Service Scrambled" is displayed	A coded TV channel was tuned.	Find out if the same channel is broadcast on a different frequency for free.
Forgotten password		Try the factory set password (6666).
The device cannot be operated using the remote control.	The device is not turned on.	Turn on the device.
	The remote control is not pointing in the right direction.	When using the remote control point it at the front panel of the device.
	There is a solid barrier between the remote control and the device.	Remove the barrier.
	Batteries are incorrectly inserted in the remote control.	Check that batteries are correctly inserted into the remote control.
	The batteries in the remote control are flat.	Replace both the batteries in the remote control.
When the device is moved to another room DVB-T reception is not possible	Because of a long signal cable the signal has become weaker.	Try connecting the device directly to an antenna.

## Technical specifications

<b>Tuner</b>	Frequency range	VHF: 174 – 230 MHz UHF: 470 – 862 MHz
	Input impedance	75 Ω unsymmetrical
	Level of input signal	-78 to -25 dBm
	Bandwidth	7 / 8 MHz
<b>Demodulation</b>	Demodulator	COFDM
	OFDM modulation	2K, 8K FFT, SDN and MFN
	Packet transmission	2K / 8K
	Protection interval	1/4, 1/8, 1/16 and 1/32
<b>Connectors</b>	RF IN	IEC 169-2, socket
	TV SCART	composite video signal, RGB, audio L/R
<b>Power source</b>	Input power voltage	100 - 240 V AC, 50/60 Hz
	Power input	Max. 5 W
<b>Video output</b>	Decoder module	PAL, NTSC
	Video resolution	720 × 576 (PAL) 720 × 480 (NTSC)
	Aspect ratio	4:3 LB, 4:3 PS, 16:9
<b>Decoding</b>	Video	MPEG2 transport MP@ML
	Audio	MPEG2 Audio Layer I + II
<b>Other</b>	Conforms to standards	ETSI EN 300 744 DVB-T
	Audio modes	L/R/STEREO

Amendments to text and technical parameters are reserved.

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## Handling instructions for the disposal of used packaging material

Dispose of the packaging material in the designated place for waste disposal.



### **Electronic and electric appliance disposal instructions**

Information for users for the disposal of electric and electronic devices

This symbol on products or original documents means that used electric or electronic products must not be added to standard communal waste. For proper disposal, renewal and recycling hand over these products to determined collection points. Or as an alternative in some European Union states or other European countries you may return your products to the local retailer when buying an equivalent new product.

Through the correct disposal of this product you will help retain valuable natural resources and prevent potential negative effects on the environment, which could result from its incorrect disposal of waste. Ask about other details at the local council or at the nearest collection point.

In accordance with national regulations penalties may be imposed for the incorrect disposal of this type of waste.

#### ***For business entities in European Union states***

If you want to dispose of electric or electronic devices, ask your retailer or supplier for the necessary information.

#### ***Disposal in other countries outside the European Union***

This symbol is valid in the European Union. If you wish to dispose of this product, request the necessary information about the correct disposal method from the local council or from your retailer.



This product meets all the basic EU regulation requirements that relate to it.

Changes in the text, design and technical specifications may change without prior notice and we reserve the right to make these changes.

