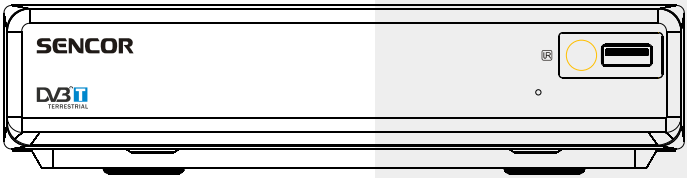
SENCOR®

SDB-1014T

DVB-T Receiver
Přijímač DVB-T
Prijímač DVB-T

DVB-T

USER'S MANUAL
PŘÍRUČKA UŽIVATELE
PRÍRUČKA POUŽÍVATEĽA



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IMPORTANT SAFETY INSTRUCTIONS

1. Read these Instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all Instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings, install in accordance with the instructions.
8. Do not install near any heat sources such as radiations, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized plug. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protected the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lighting storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
15. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloth, curtains, etc.
16. No naked flame sources, such as lighted candles, should be placed on the apparatus.
17. Attention should be drawn to the environmental aspects of battery disposal.
18. The use of apparatus in moderate climate.
19. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

WARNING: The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

The symbol indicates that dangerous voltages constituting a risk of electric shock are present within this unit.

The symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

The symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

The USB memory stick should be plug in the unit directly. USB extension cable should not be used to avoid failing of data transferring and interference caused.

The electrostatic loads may cause malfunction. The user needs to reset the unit if this is the case.

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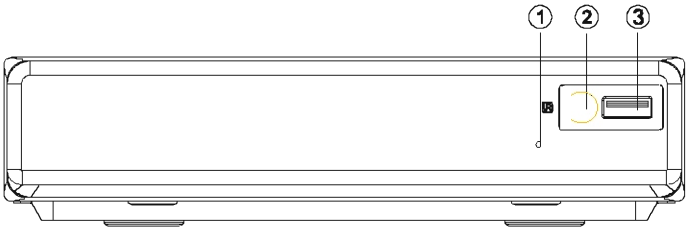
Please read this User's Manual carefully to ensure proper use of this product and keep this manual for future reference.

Front and Rear Panel Illustration

1. Front panel

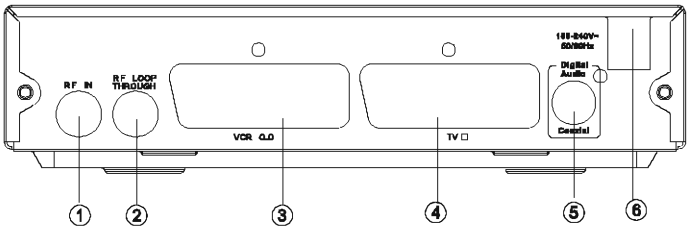


① **STANDBY INDICATOR:** Used to visually show power state of the set top box, the green LED will be light if turned on the set top box and the red LED will be light if the set top box entered standby mode.

② **REMOTE CONTROL SENSOR:** Used to receive the signal from the remote control.

③ **USB JACK:** Used to connect to an external USB 2.0 device.

2. Rear panel



① **RF IN:** This socket connects to your external aerial.

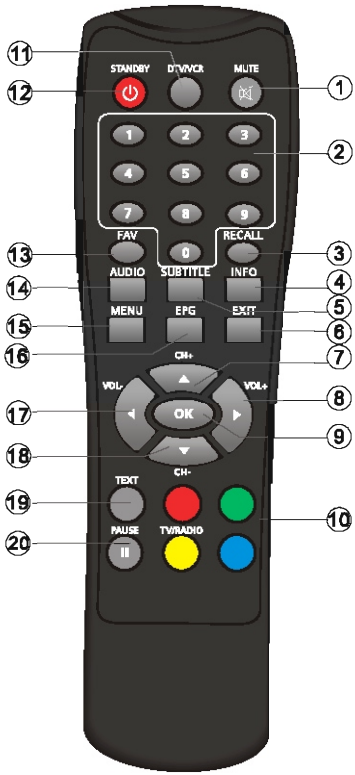
② **RF LOOP THROUGH:** This socket will bypass the RF signal to either your TV or another video system.

③ **VCR SCART:** This socket connects to either a DVD or other video system.

④ **TV SCART:** This socket connects to your TV.

⑤ **COAXIAL:** This socket connects to a coaxial socket on your surround sound system.

⑥ **MAINS CABLE:** This is used to connect to your main power supply.



Remote Key Function:

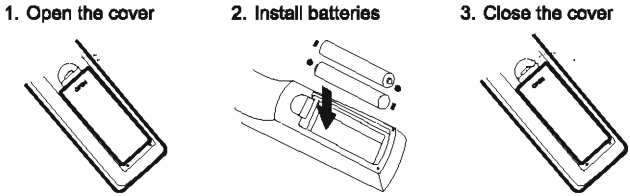
1. **MUTE:** Used to turn the sound on oroff.
2. **NUMBER KEYS:**Used to select channel numbers or input numbers in menus.
3. **RECALL:** Used to switch between the last two viewed channels.
4. **INFO:** Used to display information about the channel being viewed or further information about the program when in small EPG screen.
5. **SUBTITLE:** Used to switch between different subtitles that are broadcasted
6. **EXIT:** Used to return to the previous screenor menu.
7. **CH+ :**Used to move around the menu screens or selecting the channels in non-menu state.
8. **VOL+:** Used to move around the menu screens or changing the volume in non-menu state.
9. **OK:** Used to confirm a selection within amenu.
10. **COLOR KEYS (RED/ GREEN/ YELLOW/BLUE):** Used to operate different functions in TEXT screen or other menus(**TV/RADIO:**Used to switch between TV channels and Radio stations.)
11. **DTV/VCR:** Used to switch between the VCR SCART input and the DTV output mode.
12. **STANDBY:** Used to switch the set top box to on or standby.
13. **FAV:** Used to switch access your favouritechannels.
14. **AUDIO:**Used to set the sound output, the availablesettings Are STEREO, LEFT, RIGHT, MONO.
15. **MENU:** Used to open the main menu window.
16. **EPG:** Used to display information about the programbeing viewed and what's on next.
17. **VOL-:** Used to move around the menu screensor changing the volume in non-menu state.
18. **CH- :**Used to move around the menu screensor selecting the channels in non-menu state.
19. **TEXT:**Used to open teletext OSD display ifteletext available in the broad caste stream.
20. **PAUSE:** Used to pause or playback the programbeing viewed .

Note: SUBTITLE/TEXT/LANGUAGE may not be available for all channels

Note: SUBTITLE / TEXT / AUDIO may not be available for all channels.

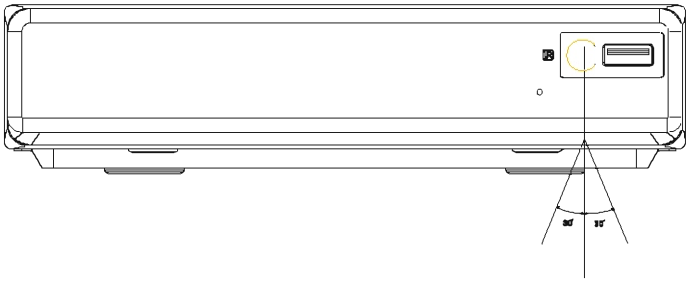
Installing the Batteries

Remove the battery cover from the remote control and put 2xAAA size batteries inside the compartment.
The diagram inside the battery compartment shows the correct way to install the batteries.



Using the Remote Control

To use the remote control, point it towards the front of the digital set top box.
The remote control has a range of up to 7 metres from the set top box at an angle of up to 60 degrees.

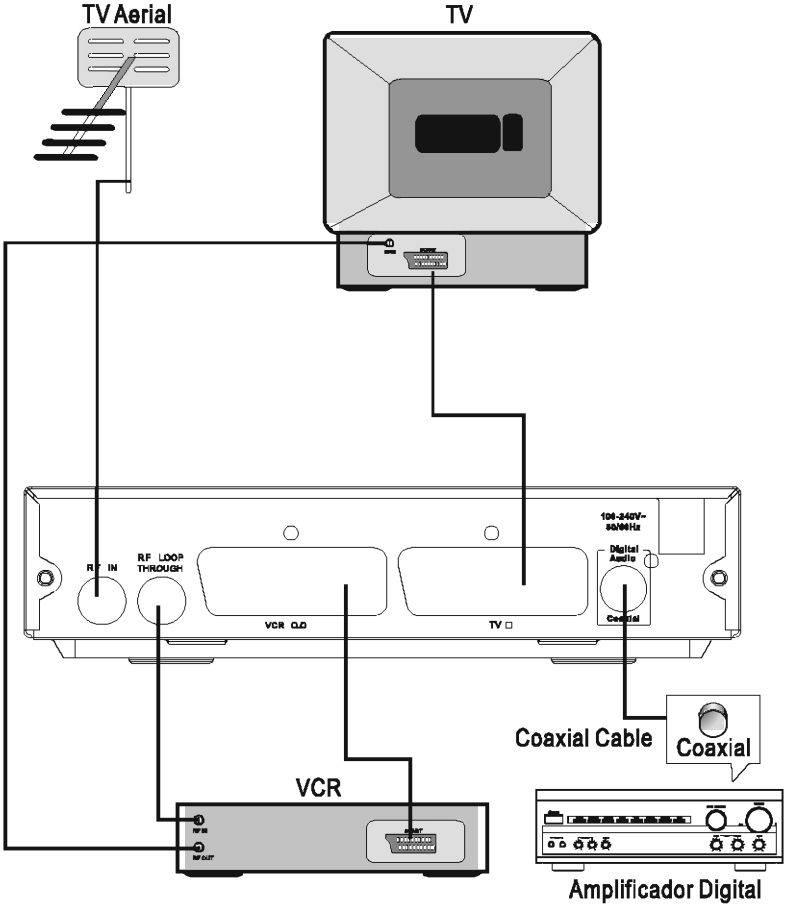


The remote control will not operate if its path is blocked.

Sunlight or very bright light will decrease the sensitivity of the remote control.

Caution: Make sure to check the voltage specification of the wall outlet is the same rating with the receiver. To prevent the risk of electric shock, do not open the cover or the back of the receiver.

Connecting to a TV Set



Note: When connecting the receiver to other equipment, e.g., TV, VCR and amplifier, make sure to refer to relevant user manual for instruction. Also, make sure you disconnect all the equipments from the mains supply before the connection.

1. Quick Installation

1.1 Setting Country and Language

User can select preferred country and language at **Setup - Installation** page.

(1) Press <Menu> button to enter **Main Menu**.
(2) Press <Left/Right> button to select **SETUP** option. See Figure 1.
(3) Press <Up/Down> button to select **Installation** option.
(4) Press <OK> button to enter **Installation** page. See Figure 2, 3.
(5) Press <Up/Down> button to select **Country** option.
(6) Press <Left/Right> button to set **Country Setting**.
(7) Press <Up/Down> button to select **OSD Language** option.
(8) Press <Left/Right> button to set a language.
If there is no channel database in the STB, it will start at step **(5)** directly when booting.

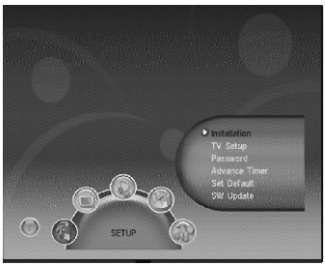


Figure 1. Main Menu - SETUP

Figure 2. SETUP - Installation

Figure 3. SETUP - Installation continued

1.2 How to receive the programs?

Scan the possible frequency and bandwidth to receive the programs.
Press <RED> or <GREEN> button to start **Auto Scan** or **Manual Scan**.

1.2.1 Auto Scan

Auto Scan will erase the database first and scans default frequency and bandwidth by **Country Setting**. Follow the steps **(1) ~ (8)** at section **1.1**.

(9) Press <RED> button to be confirmed to clear the database.
(10) Press <OK> button to confirm clear action and start **Auto Scan**.

It takes time to do **Auto Scan**, user can press <Exit> button to exit at anytime. See Figure 4, 5. Later if you want to scan again, you can follow above Quick Installation procedure.

Figure 4. Clear database message

Figure 5. Auto Scan finished

1.2.2 Manual Scan

Manual Scan adds the scanning results into database, it does not erase the database. But the User has to know the **Frequency** and **Bandwidth** for scanning. If the user scans the same **Frequency** and **Bandwidth** more than once, the previous programs will be overwritten. Indicators of Strength and Quality show the current status of the signal according to the set parameters of reception. Namely the high rate of Quality is designating for reliable reception. Follow the steps **(1) ~ (8)** at section **1.1**.

(9) Press <GREEN> button to enter **Manual Scan Page.**
(10) Press <Up/Down> button to select **Frequency** option.
(11) Press <0~9> button to input the **Frequency** value.
(12) Press <Up/Down> button to select **Bandwidth** option.
(13) Press <Left/Right> button to set **Bandwidth** value.
(14) Press <OK/Exit> button to start scan or exit.
See Figure 6, 7.

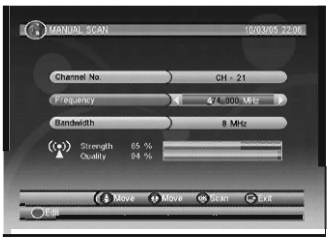


Figure 6. Manual Scan edit

Figure 7. Manual Scan finished

2. Menu Operations

Once the channel scan is finished and all the channels are stored into the database, you can start to watch the digital terrestrial TV channel or listen to the radio broadcast, some typical operations are given in this chapter.

2.1 Main Menu

Main Menu for operating a lot of functions.
(1) Press <Menu> button to enter **Main Menu**. See Figure 1.
(2) Press <Info> button to display the version information of STB.

2.2 SETUP

Set the system settings of STB. See Figure 1.

2.2.1 Installation

Set the receiving and playing program settings of STB. See Figure 2, 3.

2.2.1.1 Antenna Setting

Set the antenna power on or off to supply +5V power to antenna or not.

Note: The default is **OFF**, set this option to **ON** only if this STB is connected to an active antenna which amplifies the received RF signal, otherwise please set it to **OFF**.

2.2.1.2 Country Setting

Set the country for **Auto Scan**, **Manual Scan** and **Time Zone.**
Note: Change the **Country Setting** will automatically change the default **Time Zone** and set the default **Frequency** and **Bandwidth** for **Auto Scan.**

2.2.1.3 OSD Language

Set the On Screen Display Language.

2.2.1.4 Audio Language

Set the audio language for watching program.

2.2.1.5 Subtitle Language

Set the language for displaying subtitle.

2.2.1.6 LCN

Set the Logical Channel Number to on or off.
Note: LCN is a number that uniquely identifies a logical channel, which is popular in some european countries such as England, France.

2.2.1.7 Auto Standby

Set Auto Standby to On or Off.
When set to On device will go to Standby after 3 hours of idle time (no command from remote) to save your electricity consumption.

2.2.1.8 Auto Time Zone / Time Zone
Allow you to enable or disable auto time zone offset update. If you know the GMT (Greenwich Mean Time) time zone offset of your location, set the **Auto Time Zone** to **OFF** and select an appropriate **Time Zone,** otherwise set it to **ON** and let the system update the time zone automatically according to the transport stream. See Figure 3.
Note: Some Countries are covered with more than one Time Zone.

2.2.1.9 Auto Scan
Press <RED> button to start **Auto Scan**. See section **1.2.1** for details.

2.2.2.0 Manual Scan
Press <GREEN> button to start **Manual Scan**. See section **1.2.2** for details.

2.2.2 TV Setup
Setup the display mode for TV. See Figure 8.

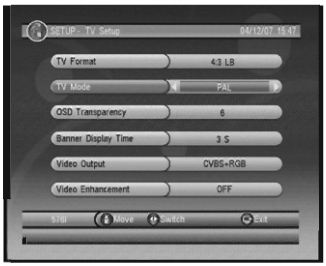


Figure 8. TV Setup

2.2.2.1 TV Format
Set display format for watching program, such as **4:3LB**, **4:3PS**, **16:9PB**,**16:9AUTO.**

4:3LB (LetterBox): Typically for wide screen content displays on conventional 4:3 TV with black bars above and below the picture.
4:3PS (PanScan): Typically for wide screen content displays on conventional 4:3 TV with left and right edges cropped.
16:9PB (PillarBox)/16:9 AUTO: Typically for wide screen 16:9 TV.

2.2.2.2 TV Mode
Set PAL, NTSC or AUTO for display. AUTO will switch PAL or NTSC by program content. This setting should be matched with user's TV.

2.2.2.3 OSD Transparency
Set the On Screen Display transparency. 1 is the most transparent.

2.2.2.4 Banner Display Time
Set Banner displays time. Banner does not disappear when set as Always and disappears untill you press the EXIT button.

2.2.2.5 Video Output
Set the video output mode to TV.

2.2.2.6 Video Enhancement
Set the Video Enhancement. See Figure 9.

(1) Press <Up/Down> button to select **Video Enhancement** option.
(2) Press <Left/Right> button to set **Video Enhancement**.
(3) Press <Up/Down> button to select **Flesh Tone** or **Black/White Expansion**.
(4) Press <Left/Right> button to set **Flesh Tone** and **Black/White Expansion**.

Figure 9. Video Enhancement

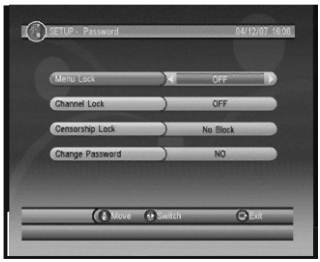


Figure 10. Password Page

2.2.3 Password
Set password for menu lock or channel lock or censorship lock. And the user can change password here, the default PIN Code is **6666**. See Figure 10.

2.2.3.1 Menu Lock
Lock the menus by password.

2.2.3.2 Channel Lock
This function is for locking the access to the channels that you can lock in the list of channels. For entering to the locked channel, the program will ask for a password.

2.2.3.3 Censorship Lock
Lock the program by password and censorship threshold. The censorship info is in program content. Under the censorship rating, user has to enter the right password for watching program.

2.2.3.4 Change Password
To change the PIN code, select this option, press <Left/Right> button to trigger changing password and <0~9> buttons to enter old password, new password and confirm new password. If succeed, the **PIN Code Changed** message will be displayed, otherwise the **PIN Code Error** message will be displayed.

2.2.4 Advance Timer
User can set timer for watching the program by date and time manually or from the **TV/Radio Guide** (see section **2.3.2**). When setting date and start time is arrived, STB will automatically switch to the wanted program. Press any key except <Vol-/ Vol+/Mute> button, STB asks user to abort it or not when watching booked program. User can delete the event while it is not at running.

2.2.5 Set Default
Restore STB to factory default. All settings did by user will be restored to factory default values and the database will be erased together.

2.3 TV/RADIO
There are two types of program: TV and Radio. The operation of the **List** and **Guide** of TV and Radio are almost the same. Herein take TV as example.

2.3.1 List

User can operate some functions in **List**. See Figure 11.

Figure 11. TV List

2.3.1.1 Favorites

User can quickly channel up/down the favorite programs by favorite filter.
There are 8 groups of favorite for user setting: News, Sport, Movie, Music, Shopping, Travel, Boy and Girl. Press <1~8> button to set or clear the favorite group when **Favorites** option selected.

2.3.1.2 Lock

Lock will ask password before watching this program when **SETUP → Password → Channel Lock** is turned on. Please see section **2.2.3.2** for details.
Press <OK> button to set or clear lock status when **Lock** option selected.

2.3.1.3 Edit

User can edit the program name, maximum length is 20 characters.

(1) Press <Left/Right> button to select **Edit** option and <Up/Down> button to select the program.
(2) Press <OK> button to display program info and press it again to edit program name.
(3) Press <Up/Down/Left/Right/0~9/RED/GREEN> button to select the character.
(4) Press <OK> button to finish the editing and return to previous program info page.
(5) Press <RED> button to save the editing and return to **List** or press <Exit> button to return to **List** without saving.

2.3.1.4 Move

Move will allow you to move the position of the channels in the list.
Note: This option will not appears in this list when **SETUP → Installation → LCN** is set to ON.

2.3.1.5 Sort

Sort will allow you to sort the channels by **A → Z** or **Pay → Free**.
Note: This option will not appears in this list when **SETUP → Installation → LCN** is set to ON.

2.3.1.6 Skip

Skip will skip the program when changing program by CH+/-. Press <OK> button to set or clear skip status when **Skip** option selected.

2.3.1.7 Delete

Delete will delete the program permanently from database. User must rescan to recover it.
Press <OK/GREEN> button to set delete one or delete all when **Delete** option selected.

2.3.1.8 Search

User can search the program name by partial keyword.
(1) Press <Left/Right> button to select **Search** option.
(2) Press <OK> button to entry search page.
(3) Press <Up/Down/Left/Right/OK/0~9/RED/GREEN> button to input keyword.
(4) Press <OK> button to Search and return **List**. The matched program will be focused.
(5) Press <GREEN/YELLOW> button to the next or previous matched program.

2.3.2 Guide

Guide is also naming EPG (Electronic Program Guide). See Figure 12,13.
(1) Press <Up/Down> button to select program or EPG event.
(2) Press <Left/Right> button to change event or date.
(3) Press <OK> button to exit all the menus or show the detail information of selected event.
(4) Press <Exit> button to exit to previous menu.

Figure 12. Guide - Event

Figure 13. Guide - Event detail

(5) Press <RED> button to enter **Book** page and <YELLOW> button to save after edited. If it conflict with itself or other event, a conflict message will be displayed. The successful booking will be added to **Main Menu → SETUP → Advance Timer** (see section **2.2.4**).

2.4 MULTIMEDIA

Multimedia must be used with external USB device inserted, otherwise „Device is not ready!" message will be displayed, remove device when playing photo or MP3/ WMA, „Device is removed!" message will be displayed and return to **Main Menu.**

2.4.1 My Album

My Album can display JPG/BMP/GIF photos and operate it. If there are photos in device root folder, it will start at **Thumbnail** mode, otherwise it will start at **Folder** mode. Press <BLUE> button can switch to **Folder** mode and <Exit> button to **Thumbnail** mode again.

2.4.1.1 Thumbnail/Folder

The information (Width X Height and Date) about selected photo will be displayed at the left bottom in **Thumbnail** mode and right up in **Folder** mode. See Figure 14,15.

Figure 14. My Album – Thumbnail

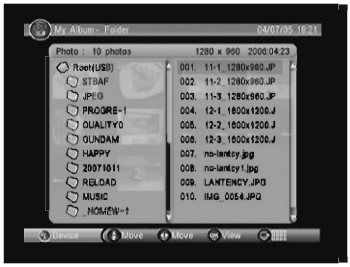


Figure 15. My Album – Folder

Press <Up/Down/Left/Right/OK> button to browse folders or files.
Press <OK> button to view the selected photo and press it again to start the slide show.
Press <Info> button to see the help information when view or slide show.

2.4.1.2 Zoom

Press <RED> button to zoom in or zoom out the photo in view mode. The zoom factor can be 25%, 50%, 100%, 150%,2 00%. If you desire the zoom factor greater than 100%, press <Up/Down/Left/Right> button to move around the photo.

2.4.1.3 Rotation

Press <Left/Right> button to rotate to left or right and <YELLOW/BLUE> button to flip horizontal or vertical in view mode.
After rotating or flipping the photo and return **Thumbnail** mode, the effect will be kept.

2.4.1.4 Slide Show

Press <OK> button to view the photo from **Thumbnail** or **Folder** mode and press it again to start the slide show.
Press <RED> button to play or to pause the slide show.
Press <GREEN> button to set music playing at background when sliding the show.
Press <YELLOW> button to set repeating or once.
Press <BLUE> button to set the time interval between current and next photo.
Press <Up/Down> button to skip next or previous photo right away.

2.4.2 My Music

My Music can play most of MP3/WMA files. It displays progress bar, audio spectrum, current playing time and total time while playing. See Figure 16,17.
Press <Info> button to select device if an external USB hub has been connected.
Press <Up/Down/Left/Right/OK> button to browse folders and files.
Press <OK> button to start playing.
Press <RED> button to play or pause.
Press <GREEN> button to stop.
Press <YELLOW> button to set play mode as Repeat All, Repeating, Random, Repeat Off.
Press <BLUE> button to set fast forward speed as x2, x3, x4, Normal.
Press <Left/Right/Mute> button to adjust volume while playing.

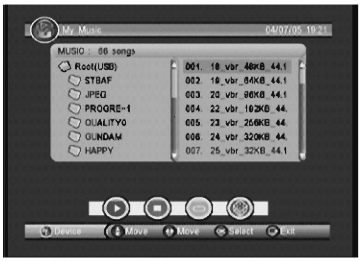


Figure 16. My Music – Browser

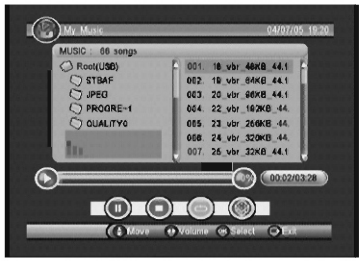


Figure 17. – My Music – Play

2.4.3 My Movie

My Movie can play most of MPEG2/4 files. It displays the played file name at the top left corner and use the information key to get the current playing time and total time information while playing. See Figure 18, 19.

Press <Info> button to select device if an external USB hub has been connected while browsing, and to show the control information bar while playing.

Press <Up/Down/Left/Right/OK> to select folders and files during browsing and to switch next/previous file or adjust the volume while playing.

Press <OK> button to select a file to play.

Press <RED> button to play or pause while playing.

Press <GREEN> button to play the frame one by one while playing.

Press <YELLOW> button to set fast backward speed as x2, x4, x8, x16, x32, Normal.

Press <BLUE> button to set fast forward speed as x2, x4, x8, x16, x32, Normal.

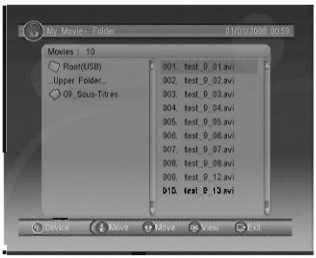


Figure 18. My Movie – Browser

Figure 19. My Movie – Play

2.5 ACCESSORY

There are three options: **Gomoku**, **Calendar**, **Calculator**.

Gomoku

Press <Up/Down/Left/Right> button to set play mode and difficulty.

Press <OK> button to start play Gomoku.

Press <Up/Down/Left/Right> button to select the position.

Press <OK> button to place the piece.

Calendar displays the year, month and date.

Calculator can used for mathematical calculations.

3. Normal Play

Normal Play means STB under watching TV or listening to the Radio. See Figure 14, 15.

Figure 14. Normal Play - TV

Figure 15. Normal Play - Radio

3.1 Information

Press <Info> button once to display info banner. Banner displays the program No., favorite setting, current time, program name, now and next event, lock, scramble, subtitle and teletext info. See Figure 16.

Press <Info> button when banner exist to display detail info of now event.

Press <Info> button when detail exist to display current program info. See Figure 17.

Figure 16. Banner

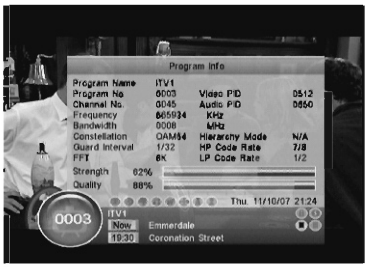


Figure 17. Program Info

3.2 Switch Program

User can switch program by CH+/- or input program number directly. If the input program number does not exist, STB will ignore the input. Or press <Recall> button to switch to last watching program from current watching program.

3.3 Volume

Press <Vol-/Vol+> button to adjust the volume.
Press <Mute> button to mute.
If adjust the volume while mute, mute will be canceled.

3.4 Program List

Press <OK> button to display **Program List** with No., name and lock/scramble/skip status. See Figure 18.
Press <Up/Down/Left/Right> to switch the program.
Press <OK/Exit> to return normal play mode.

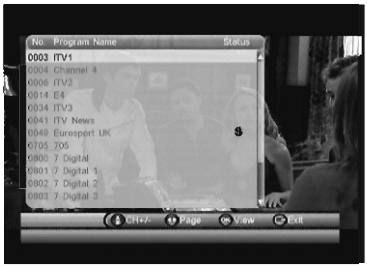


Figure 18. Program List

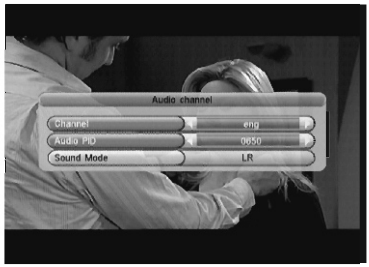


Figure 19. Audio Channel

3.5 Audio

Switch the sound channel and switch sound mode to LR(stereo) or LL(left) or RR(right). If setting audio language at **SETUP → Installation → Audio Language**, the audio channel default language will be chosen by setting. See Figure 19.
Press <Audio> button to display the audio channel page.
Press <Up/Down> button to select Channel/Audio PID or Sound Mode option.
Press <Left/Right> button to set the value.

3.6 Pause

Pause video and audio. But it will be canceled by any input.

3.7 Favorites

User can switch the favorite programs in the same favorite group. About favorites setting, see section **2.3.1.1** for details.
Press <YELLOW> button to switch the favorite group in Program list. See Figure 22.
Press <CH +/-> button to switch the same favorite program in normal play mode.

3.8 Teletext

Display teletext on screen, the style of teletext may be different by content provider. See Figure 20, 21.

Press <Text> button to display the teletext setting page.

Press <Up/Down> button to select the teletext language if the program has teletext.

Press <OK/Exit> button to exit the teletext setting page.

Press <0~9/Up/Down/Left/Right> button to change teletext page if teletext exists.

Figure 20. Teletext Setting Page

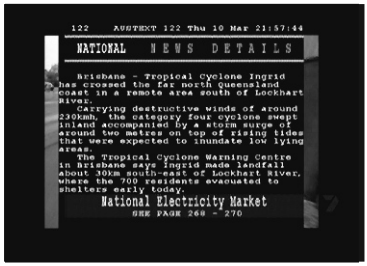


Figure 21. Teletext Sample

3.9 Subtitle

Display the subtitle on screen, the style of subtitle may be different by content provider. See Figure 22, 23.

Press <Subtitle> button to display subtitle setting page.

Press <Up/Down> button to select subtitle language if the program has subtitle.

Press <OK/Exit> button to exit subtitle setting page.

Figure 22. Subtitle Setting Page

Figure 23. Subtitle sample

3.10 Teletext Subtitle

Display subtitle by teletext, the style of the teletext subtitle may be different by content provider. See Figure 24, 25.

Press <Text/Subtitle> button to display teletext or subtitle setting page.

Press <Left/Right> button to select TTX Subtitle.

Press <Up/Down> button to select teletext subtitle language.

Press <OK/Exit> button to exit the setting page.

Figure 24. TTX Subtitle in Teletext

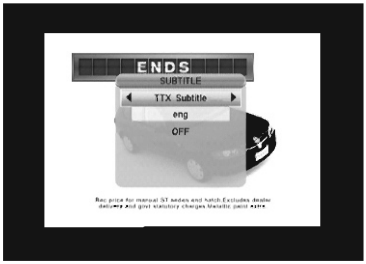


Figure 25. TTX Subtitle in Subtitle

3.11 Guide

Press <GUIDE> button at normal play state, see section **2.3.2** for details.

3.12 Message

There are some messages to inform user the current status of the STB.

3.12.1 No Signal

STB can't get signal, for example, cable is disconnected.

3.12.2 No Service

Program doesn't have any content to play.

3.12.3 Service Scrambled

Program is scrambled for payment, you need contact with the content provider to know how to descramble it.

3.12.4 Antenna Overload

The power of antenna is overload.

3.12.5 HDTV Not Support

If the program content is HDTV format, this STB doesn't support it.

3.12.6 Channel Locked

Program is locked by setting lock (see section **2.3.1.2**) and turning on channel lock in password setting (see section **2.2.3.2**). User must input correct password to watch program.

Troubleshooting

If you experience problems with this receiver or its installation, in the first instance please read carefully the relevant sections of this User's Manual and this Troubleshooting section.

Problem	Possible cause	What to do
Standby light not lit	Mains lead unplugged	Check mains lead
	Mains fuse blown	Check fuse
No signal found	Aerial is disconnected Aerial is damaged/ misaligned	Check aerial lead Check aerial
	Out of digital signal area	Check with dealer
No picture or sound	Viewing incorrect SCART output	Press the DTV/VCR button
	Tuned to digital teletext channel	Retune to another channel
Mosaic blocks in picture or picture freezes	Aerial may not be compatible	Check aerial
Scrambled channel message	Channel is scrambled	Select an alternative channel
Forgotten channel lock code		Re-install channels to cancel channel lock
No response to remote control	Receiver off	Plug in and turn on receiver
	Handset not aimed correctly	Aim handset at front panel
	Front panel obstructed	Check for obstructions
	Remote control batteries are inserted incorrectly	Check batteries direction
	Handset batteries exhausted	Replace remote control batteries
After moving the receiver to another room, find can't receive the digital reception	The aerial feed may come through a distribution system which may reduce the digital signal now received by the receiver	Try a direct feed from the antenna

Specifications

Tuner	Frequency Range	VHF: 174MHz to 230MHz UHF: 470MHz to 862MHz
	Input Impedance	75 Ohms unbalanced
	Signal Input Level	-78 ~ -25DBM
	Bandwidth	7/8 MHz
Demodulation	Demodulator	COFDM
	OFDM Modulation	2K, 8K FFT, SFN and MFN
	Packet Carries	2K/8K
	Guard Interval	1/4,1/8,1/16,1/32
Connectors	RF IN	IEC 169-2 female connector
	RF LOOPTHOUGH	EC 165-2 male connector
	TV SCART	Composite video(CVBS), RGB, audio L/R
	VCR SCART	Composite video, audio L/R
	COAXIAL	RCA, for SPDIF digital audio output
Power	Input	100-240V~ 50/60Hz
	Consumption	6 W max.
Display	Decoder Module	PAL, NTSC
	Resolution	720 x 576(PAL); 720 x 480(NTSC).
	Aspect Ratio	4:3 (Letterbox, Pan & Scan),16:9
Decoding	Video	MPEG2 Transport MP@ML
	Audio	MPEG2 Audio Layer I&II
Others	Compliance	ETSI EN 300 744 DVB-T Compliance
	Sound Mode	Right, Left, Stereo

Changes in text and technical parameters reserved.

INSTRUCTIONS AND INFORMATION REGARDING THE DISPOSAL OF USED PACKAGING MATERIALS

Dispose of packaging material at a public waste disposal site.

DISPOSAL OF USED ELECTRICAL AND ELECTRONIC APPLIANCES

The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this product at your applicable collection point for the recycling of electrical & electronic equipment waste. Alternatively in some states of the European Union or other European states you may return your products to your local retailer when buying an equivalent new product.

The correct disposal of this product will help save valuable natural resources and help in preventing the potential negative impact on the environment and human health, which could be caused as a result of improper liquidation of waste. Please ask your local authorities or the nearest waste collection centre for further details. The improper disposal of this type of waste may fall subject to national regulations for fines.

For business entities in the European Union

If you wish to dispose of an electrical or electronic device, request the necessary information from your seller or supplier.

Disposal in other countries outside the European Union

If you wish to dispose of this product, request the necessary information about the correct disposal method from local government departments or from your seller.

This appliance complies with EU rules and regulations regarding electromagnetic and electrical safety.

Changes to the text, design and technical specifi cations may occur without prior notice and we reserve the right to make these changes.