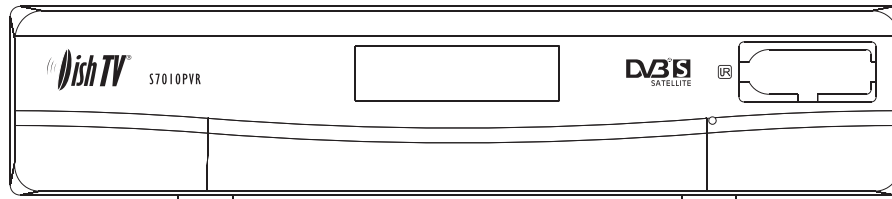


User Manual Of Digital Set Top Box



S7010PVR

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

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.
- 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.
- Caution:** When the apparatus was in electrostatic circumstance, it may be malfunction and need to reset by user.
- Warning:** The USB memory stick should be plugged in the unit directly. USB extension cable should not be used to avoid failing of data transferring and interference caused.



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.



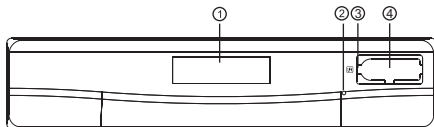
The symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing use only identical replacement parts.

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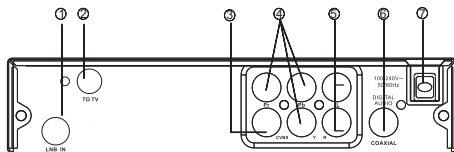
Front and Rear Panel Illustration

1. Front Panel



1. **LED DISPLAY:** Used to display the time or channel information.
2. **Standby Indicator:** Used to visually show power state of the set top box, the green LED will show if turned on the set top box and the red LED will be light if the set top box entered standby mode.
3. **REMOTE CONTROL SENSOR:** Used to receive the signal from the remote control.
4. **USB JACK:** Used to connect to an external USB 2.0 device.

2. Rear Panel

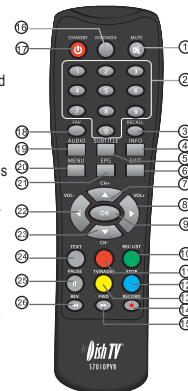


1. **LNB IN:** This socket connects the LNB to your receive the signal.
2. **TO TV:** Used to output RF signal for TV set.
3. **CVBS:** This socket outputs composite video signal.
4. **Y/Pb/Pr:** These sockets connect to your TV component input terminals.
5. **L/R:** This socket outputs analog audio L/R signal.
6. **COAXIAL:** This socket connects to a coaxial socket on your surround sound system.
7. **MAINS CABLE:** This is used to connect to your main power supply.

Remote Controller

Remote Key Function:

1. **MUTE:** Used to turn the sound on or off.
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 screen or 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 a menu.
10. **RECLIST:** Used to show the recorded programs list.
11. **COLOR KEYS (RED/ GREEN/ YELLOW/ BLUE):** Used to operate different functions in TEXT screen or other menus.
12. **STOP:** Used to stop PVR function.
13. **TV/RADIO:** Used to switch between TV channels and Radio stations.
14. **RECORD:** Used to record the program manually, and select the record duration if pressed it again.
15. **FAST FORWARD:** Used to adjust the forward speed if in HDD time shifting playback mode.
16. **VIDEO MODE:** Used to switch VIDEO output mode.
17. **STANDBY:** Used to switch the set top box to on or standby.
18. **FAV:** Used to switch access your favourite channels.
19. **AUDIO:** Used to set the sound output, the available settings are STEREO, LEFT, RIGHT, MONO.
20. **MENU:** Used to open the main menu window.
21. **EPG:** Used to display information about the program being viewed and what's on next.
22. **VOL-:** Used to move around the menu screens or changing the volume in non-menu state.
23. **CH-:** Used to move around the menu screens or selecting the channels in non-menu state.
24. **TEXT:** Used to open teletext OSD display if teletext available in the broad caste stream.
25. **PAUSE:** Used to pause or playback the program being viewed.
26. **FAST BACKWARD:** Used to adjust the backward speed if in HDD time shifting playback mode.

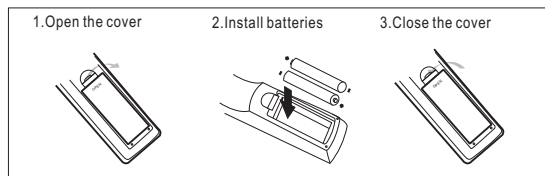


Note: SUBTITLE/TEXT/LANGUAGE may not be available for all channels.
RED/GREEN/YELLOW/BLUE may has specifical function in different menus.

Installing the Batteries

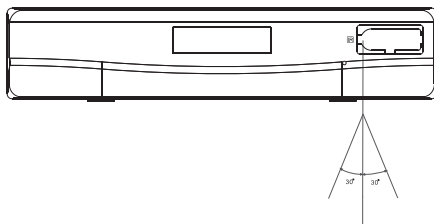
Remove the battery cover from the remote control and put 2xAAA size batteries inside the compartment.

The diagram inside the battery compartment shows the correct way to install the batteries.



Using the Remote Control

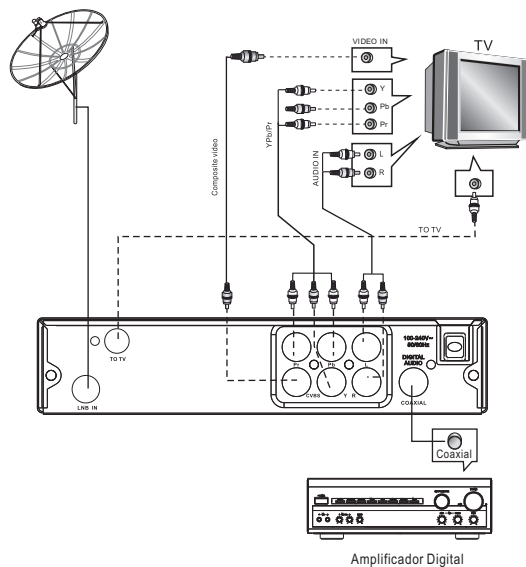
To use the remote control, point it towards the front of the digital set top box. The remote control has a range of up to 7 metres from the set top box at an angle of up to 60 degrees. The remote control will not operate if its path is blocked.



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

Connections

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.



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.

User Interface

1. Quick Installation

1.1 Setting Language

User can select preferred language at Setup Installation General Setting page.

- (1) Press <Menu> button to enter **Main Menu**.
- (2) Press <Left/Right> button to select **SETUP** option.
- (3) Press <Up/Down> button to select **Installation** option.
- (4) Press <Up/Down> button to select **General Setting** option.
- (5) Press <OK> button to enter **General Setting** page.
- (6) Press <Up/Down> button to select the language option.
- (7) Press <Left/Right> button to set a language.

1.2 How to receive the programs?

Scan the satellites to receive the programs.

1.2.1 Satellite configuration

Satellite configuration and manager is in Main Menu->Setup->Installation->MY DISH menu.

Firstly, select the proper switcher according to the switcher you have, as Figure 1.

For sample switcher, each branch is connected with a satellite, user can configuration it as Figure 2.

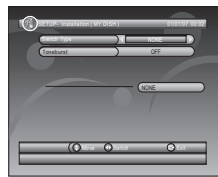


Figure 1. Satellite Installation



Figure 2. Add Satellite

For DiSEqC1.2 motor, user can set limit position, user location and LNB of it, as, then user can adjust and store max 32 position for different satellites, as Figure 3, Figure 4.

Switch Type: select DiSEqC1.0/1.2 switcher or DiSEqC1.2 motor, or select none if you don't have any DiSEqC device.

Toneburst: enable or disable toneburst switcher.

move down to the satellite selection area, and press OK key to add the proper satellite, as Figure 2.

LNB Type: select the LNB type according to your dish.

LNB Low Freq: set the low frequency of LNB.

LNB High Freq: set the high frequency of LNB if it is universal.

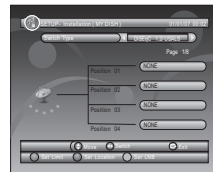


Figure 3. DiSEqC1.2 Setting



Figure 4. DiSEqC1.2 Motor Limitation

Then user can press BLUE key to scan the focus satellite or RED key to scan multi-satellites, as Figure 5.

Scan Mode: select Blind-Quick or Blind-Detail for blind scan, or Default to scan the default transponder list.

Programme: select to receive all programs or only free programs.



Figure 5. Scan Mode

1.2.2 Transponder configuration and scan

If there exist satellite in the database, then user can edit and scan transponder in the menu Main Menu Setup Installation TP MANAGER, as Figure 6.

Press <Left/Right> button to select satellite;

Press <Up/Down> button to select transponder.

Press <OK/Up/Down/Left/Right/0-9>, user can edit Frequency, Symbol Rate or Polarity of the transponder.

Press <BLUE> button to scan the focused transponder.



Figure 6. Scan for Transponder



Figure 7. General Setting

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 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**.

(2) Press <Info> button to display the version information of STB.

2.2 SETUP

Set the system settings of STB.

2.2.1 Installation

Installation menu include **General Setting**, **MY DISH** and **TP MANAGER**.

2.2.1.1 General Setting

Set the receiving and playing program settings of STB, as Figure 7.

2.2.1.2 OSD Language

Set the On Screen Display Language.

2.2.1.3 Audio Language

Set the audio language for watching program.

2.2.1.4 Subtitle Language

Set the language for displaying subtitle.

2.2.1.5 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.

2.2.1.6 Auto Scan

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

2.2.1.7 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 doesn't disappear when set as "Always" and disappears at timeout when set as other values.

2.2.2.5 Video Output

Set the video output mode to TV.

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**.

2.2.3.1 Menu Lock

Lock the menus by password.

2.2.3.2 Channel Lock

Lock the channel which has been set to lock status when turning on the **Channel Lock**. Please see section 2.3.1.2 for details.

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 isn't 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 Figure9.



Figure 9. TV List



Figure 10. Guide - Event

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 move the position of the channels in the list.

2.3.1.5 Sort

Sort will allow you sort the channels by **A<->Z** or **Pay<->Free**.

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 10.

- (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.
- (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 the "Device is not ready!" message will be displayed, remove device when playing photo or MP3/WMA, the "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 info (Width X Height and Date) of selected photo will be displayed at the left bottom in **Thumbnail** mode and right up in **Folder** mode. See Figure 11.



Figure 11. My Album - Thumbnail

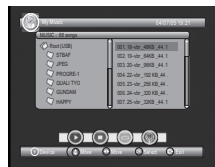


Figure 12. My Music - Browser

Press <Up/Down/Left/Right/OK> button to browse folders or files.
Press <OK> button to view the selected photo and press again to start 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%, 200%. If zoom factor greater than 100%, press <Up/Down/Left/Right> button can move around the photo.

2.4.1.3 Rotation

Press <Left/Right> button to rotate 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 pause the slide show.
Press <GREEN> button to set music playing at background when slide 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 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 12.
Press <Info> button to select device if an external USB hub connected.
Press <Up/Down/Left/Right/OK> button to browse folders and files.
Press <OK> button to start play.
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.

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 info key to get the current playing time and total time information while playing.

Press <Info> button to select device if an external USB hub connected while browsing, and to show the control info 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.

2.4.4. My Record

My Record make user can view the program that has been recorded, or configure the options for recording. Please notice that the File System supported is FAT and FAT32.

In **Recorded List** menu, user can view or delete the recorded program. In **Recording Device** menu, user can select different storage media or different partition in one storage media for recording. In **Recording Preference** menu, user can change the mode of **Time Shift**, **One Button Recording**, and the length of default recording period. Please notice that **Time Shift Size** is calculated automatically according to the current storage media or current partition, it can't be modified.

Time Shift:

Auto: this option will start Time Shift recording automatically for program being viewed. Pause: this option will start Time Shift recording only after PAUSE key is pressed by user. OFF: this option will disable Time Shift recording.

One Button Recording:

ON: this option will start recording the program being viewed directly after RECORD key is pressed. OFF: this option will enable user to pre-set the length of recording after RECORD key is pressed.

Press <Up/Down/Left/Right> for navigation in the menu.

Press <OK> to select or modification confirm.

Press <EXIT> to exit the current menu.

Press <RED/GREEN/YELLOW/BLUE> for special function indicated in the menu.

Note:

For utility of TIMESHIFT/RECORDING/PLAYBACK function, USB2.0 storage device is needed basically. We strongly recommend user to use USB2.0 HDD, and use independent partition for PVR. Before using the partition, please format the partition through the set-top-box.

NOTE:
FORMAT operation will delete all the files in the disk or the current partition, so please backup the files before FORMAT operation.



Figure 13. My Record



Figure 14. Recorded List

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 be used for mathematical calculations.

3.Normal Play

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

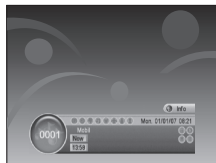


Figure 15. Normal Play - Radio



Figure 16. Program Info

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.

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 16.

3.2 Switch Program

User can switch program by CH+/- or input program number directly.

If the input program number doesn't 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.

Press <Up/Down/Left/Right> to switch the program.

Press <OK/Exit> to return normal play mode.

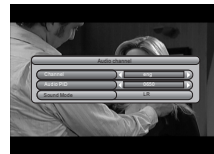


Figure 17. Audio Channel

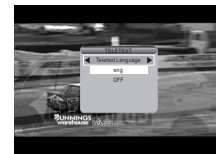


Figure 18. Teletext Setting Page

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 17. 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.

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 18.

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.

3.9 Subtitle

Display subtitle on screen, the style of subtitle may be different by content provider.
See Figure 19.

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.

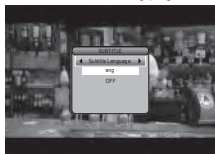


Figure 19. Subtitle Setting Page

3.10 Teletext Subtitle

Display subtitle by teletext, the style of the teletext subtitle may be different by content provider.

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.

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 HDTV Not Support

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

3.12.5 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 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	Dish is disconnected	Check dish lead
	Dish is damaged/misaligned	Check dish
	Faulty LNB on dish	Have dish tested
No picture or sound	Viewing incorrect video output	Press the VIDEO MODE button
	Tuned to digital teletext channel	Retune to another channel
Mosaic blocks in picture or picture freezes	This is caused by low or bad signal from your satellite dish	Have a satellite tech check your dish
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

Specifications

Item	Specification	
Tuner	Frequency Range	950MHz to 2150MHz
	Input Impedance	75 Ohms unbalanced
	Signal Input Level	-65 ~ -25DBM
	Symbol Rate	2-45Mbps
	LNB Power	13/18 V, max. 500mA
Demodulation	Demodulator	QPSK
	FEC	1/2, 2/3, 3/4, 5/6, 7/8
Connectors	LNB IN	F-Connector
	CVBS	Composite video (CVBS)
	L/R	Audio L/R
	TO TV	Output RF signal for TV set
		Frequency: 215.25±1 MHz, PAL-B/G
	COAXIAL	RCA, for SPDIF digital audio output
Power	INPUT	100-240V~ 50/60Hz
	Consumption	18W max.
Display	Decoder Module	PAL, NTSC
	Resolution	720x576 (PAL); 720x480 (NTSC)
	Aspect Ratio	4:3 (Letterbox, Pan & Scan); 16:9
Decoding	Video	MPEG2 Transport <u>MP@ML</u>
	Audio	MPEG2 Audio Layer I&II
Others	Compliance	ETSI/EN 300421 DVB-S Compliant
	Sound Mode	Right, Left, Stereo

*Specifications are subject to change without further notice.



This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of life separately from your household waste. There are separate collection systems for recycling in the EU. For more information, please contact the local authority or your retailer where you purchased the product.