



DSB-9601C

# Instructions for use

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GB

# SAFETY INSTRUCTIONS

This STB has been manufactured to satisfy international safety standards. Please read the following recommended safety precautions carefully.

- MAINS SUPPLY:** AC 100-240V~, 50/60Hz
- OVERLOADING:** Do not overload wall outlets, extension cords or adapters as this can result in fire or electrical shock.
- LIQUIDS:** Keep liquids away from the STB.
- CLEANING:** Before cleaning, disconnect the STB from the wall socket. Use a cloth lightly dampened with water(no solvents) to clean the exterior.
- VENTILATION:** Do not block the STB ventilation holes. Ensure that free airflow is maintained around the STB. Never store the STB where it is exposed to direct sunlight or near heating equipment e.g. a radiator.  
Never stack other electronic equipment on top of the STB. Place the STB at least 30mm from the wall.
- ATTACHMENTS:** Do not use any attachment that is not recommended by the manufacturer; it may cause a hazard or damage the equipment.
- CONNECTION TO THE SATELLITE DISH LNB:**  
The LNB connector cable has voltage in its center core. It is therefore recommended that the STB be disconnected from the mains power before connecting or disconnecting this cable.  
**FAILURE TO DO SO COULD DAMAGE THE LNB.**
- SERVICING:** Do not attempt to service this product yourself. Any attempt to do so will make the warranty invalid. Refer all servicing to a qualified service agent.
- LIGHTNING:** If the STB is installed in an area subject to intense lightning activity, protection devices for the STB mains connector and modem telephone line are essential.  
The individual manufacturer's instruction for safeguarding other equipment, such as TV set, Hi-Fi, etc., connected to the STB must also be followed during lightning storms.
- GROUNDING:** The ground of the LNB cable must be directly connected to the system ground for the satellite dish.  
The grounding system must comply with local regulations.

**Note :** Dispose the used batteries at designated place for environment protection.

## WARNING!

- 1. Follow these directions in order not to damage the power cord or plug.**
  - Do not modify or process the power cord or plug arbitrarily.
  - Do not bend or twist the power cord too much.
  - Make sure to disconnect the power cord with holding the plug.
  - Separate heat appliances from the power cord as distance as possible in order to prevent the cover from being melted.
- 2. Failure to follow one of them may cause electrical shock.**
  - Do not open the main body.
  - Do not insert metals or inflammable objects inside the product.
  - Do not touch the power plug with a wet hand.
  - Disconnect the power cord in case of lightening.
- 3. Hard Disk Drive**
  - Do not move the product or turn the power off suddenly while the HDD is being driven.
  - SAMSUNG does not have any responsibility for corruption of HDD data due to user's mistake and/or misuse.
  - Do not separate the HDD from the main body.
- 4. This model features variety of functions, and it takes relatively many seconds to booting the system (about 15 to 20 seconds). This booting time does not indicate any fault on the system.**
- 5. Do not use the product when it is out of order. If you continue to use the product with a defect, it can cause a serious damage to the product. Make sure to contact your local product distributor when the product is out of order.**

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## GENERAL FEATURES

### 1. USER SECTION

- ▶ 4000 PROGRAMMABLE CHANNELS
- ▶ SOFTWARE DOWNLOAD VIA SATELLITE & PC
- ▶ ADVANCED ELECTRONIC PROGRAM GUIDE
- ▶ MULTI LANGUAGE SUPPORTED FOR OSD
- ▶ SUBTITLE & TELETEXT(OSD & VBI)SUPPORTED WITH MULTI LANGUAGE
- ▶ FULL FUNCTION INFRARED REMOTE CONTROL UNIT
- ▶ AUTO AND MANUAL SCAN FACILITY
- ▶ CHANNEL ORGANIZING(PROGRAMMABLE)
- ▶ LOW POWER CONSUMPTION
- ▶ AUTO UPDATED EPG
- ▶ PVR FUNCTION

### 2. TUNER SECTION

- ▶ 950~2150 MHz WIDE BAND TUNER
- ▶ IF OUTPUT WITH DC PASS LOOP FOR ANALOG RECEIVER
- ▶ SUPPORTING DiSEqC 1.2 VERSION
- ▶ 13V/18V SWITCHING
- ▶ 22KHz CONTINUOUS TONE CONTROL
- ▶ 2 TUNER

### 3. VIDEO SECTION

- ▶ DVB-S COMPLIANT
- ▶ MPEG-2 VIDEO(MP@ML)
- ▶ 2~45 MS/s SYMBOL RATE
- ▶ COMPATIBLE FOR BOTH SCPC/MCPC
- ▶ SUPPORTS ASPECT RATIO 4:3(NORMAL) AND 16:9(WIDE SCREEN)
- ▶ MODULATOR OUTPUT
- ▶ S-VHS, 2SCART, 1RCA

### 4. AUDIO SECTION

- ▶ MPEG 1 AUDIO LAYER I & II AND DOLBY AC3
- ▶ MONO, DUAL, STEREO AND JOINT STEREO AUDIO MODE
- ▶ 32, 44.1, 48 AND 96 KHz SAMPLING FREQUENCIES
- ▶ VOLUME CONTROL AND MUTE FUNCTION THROUGH REMOTE CONTROL UNIT
- ▶ SPDIF DIGITAL AUDIO OUTPUT

### 5. PVR SECTION

- ▶ 40 GB HARD DISC
- ▶ PVR FUNCTION(PLAY, SLOW, SKIP,FF, REW,..)
- ▶ FILE MANAGEMENT(COPY, CUT, COMBINE, DELETE, MOVE, LOCK,..)
- ▶ 3-FILE PLAY MODE(FULL, MOSIC, PIP)
- ▶ EPG TIMER RECORDING
- ▶ TIMESHIFT RECORDING
- ▶ RECORDING A CHANNEL WHILE WATCHING ANOTHER CHANNEL SIMUTANEOUSLY
- ▶ ZOOM FUNCTION

## CONNECTING YOUR "DSB-9601C"

### 1. LOCATION OF THE RECEIVER

Your DSB-9601C should be placed under proper ventilation.

Don't put in completely enclosed cabinet that will restrict the flow of air, resulting in overheating.

The location should be safeguarded from direct sunlight, excess moisture, rough handling or household pets.

Avoid stacking other electronic components on the top of the receiver.

The location should be safely accessible by the cable from your antenna system.

### 2. CONNECTING THE RECEIVER WITH DISH SYSTEM

After installing your antenna system, connect the coaxial cable from the LNB of your antenna to "LNB" terminal marked at the rear panel of the DSB 9601C.

All cable connectors should be finger tightened; do not use any kind of wrench while tightening connectors. The cable should be 75ohm impedance coaxial twisted at the end with an "F" type connector.

### 3. CONNECTING THE RECEIVER TO TV

To connect the receiver with your television, you can use four methods;

via SCART cable, RF cable, RCA cable or S-VHS cable. S-VHS provides the better screen quality.

Connect the RF cable to the terminal marked "TV" at the rear panel of DSB-9601C and its other end to the TV RF input socket.

In the case of connecting your TV through SCART cable, connect the SCART connector marked TV to the respective SCART port on the TV.

### 4. CONNECTING YOUR ANOTHER RECEIVER

To facilitate the user using analog receiver to view analog channels, DSB-9601C has been provided with a loop through terminal marked as "LOOP".

Connect the coaxial cable from this terminal to the IF input terminal of your analog receiver. Now by keeping the DSB-9601C in standby, you will be able to tune and view analog channels from your another receiver.

### 5. CONNECTING YOUR VCR

To connect a VCR, the DSB-9601C has been provided with SCART at the rear marked "VCR".

Using a SCART connector, the VCR can be connected to the receiver.

## 6. CONNECTING EXTERNAL AUDIO / HI-FI SYSTEM

To connect any external Audio Hi-Fi system, the receiver has been provided with two RCA connectors at the rear panel of the receiver, marked with AUDIO L and R respectively to connect the left and right Audio.

## 7. CONNECTING DIGITAL AUDIO SYSTEM

Connect a fiber optic cable between Optical SPDIF on the receiver and Optical SPDIF on the Digital Audio System.

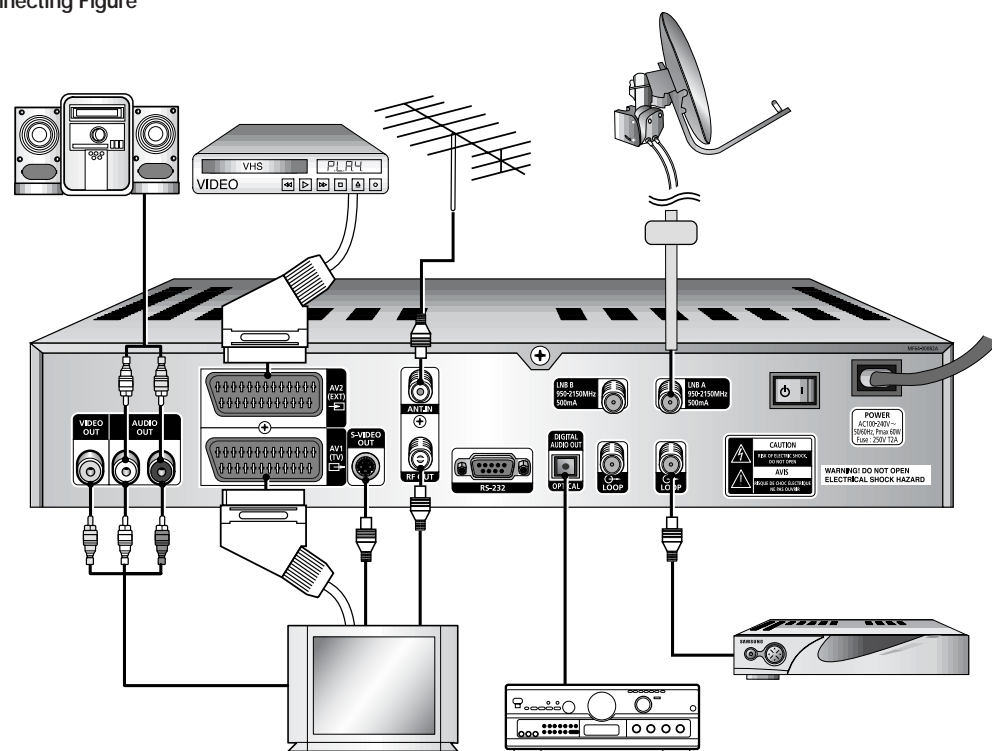
## 8. INSERTING COMMON INTERFACE CAM AND SMARTCARD

The DSB-9601C supports Common Interface CAMs under DVB specification. The CI CAMs include a built-in smart card reader.

- Insert the smart card into the CAM gently with the gold colored chip upwards
- Slide in the CAM gently inside the slot so that it sits in the socket tightly.
- To remove the CAM push the button provided by the side of the CAM slot. The CAM will be ejected from the socket.

**Note :** The following Common Interface CAMs are available now:  
IRDETO, CONAX, CRYPTOWORKS, VIACCESS, NAGRAVISION, SECA, Etc.

Connecting Figure

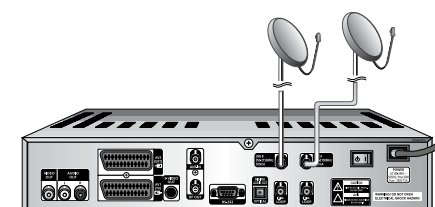


## Connecting Antenna

We recommend one of the following installation diagrams because of the LNB specifications for selecting RF signal band by DC voltage and 22KHz Tone.

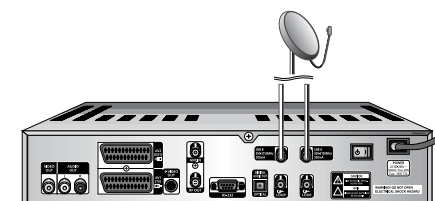
### 1. Two separated Antennas

The connection type in Satellite Connection menu should be set to separate.



### 2. One Dual Antenna

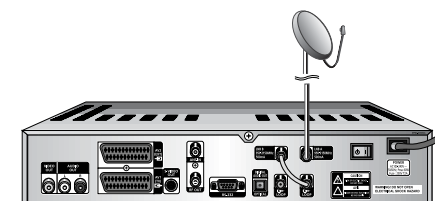
The connection type in Satellite Connection menu should be set to separate.



### 3. One Antenna (Loop Through)

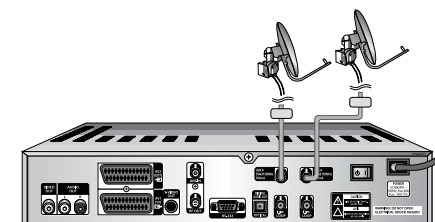
The connection type in Satellite Connection menu should be set to loop through.

Tuner 1 and 2 can receive the RF signal of the same polarity and the same band.



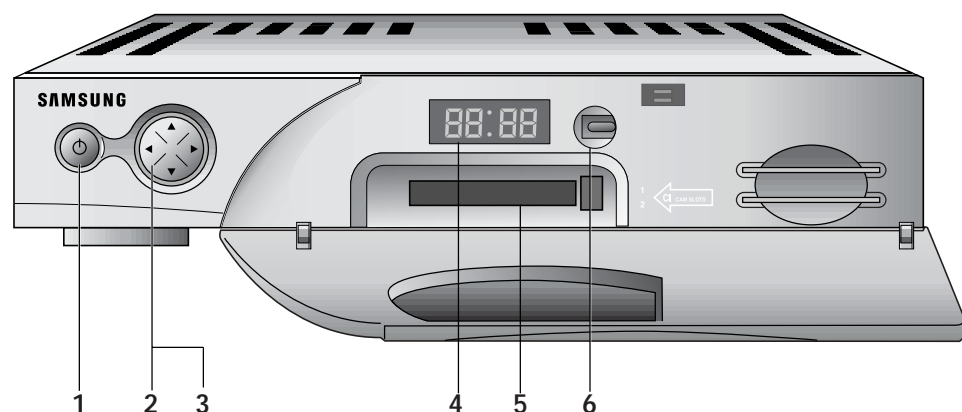
### 4. Two separated dual LNB Antenna and DiSEqC switches


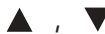

The connection type in Satellite Connection menu should be set to separate.



## DESCRIPTION

### Front Panel

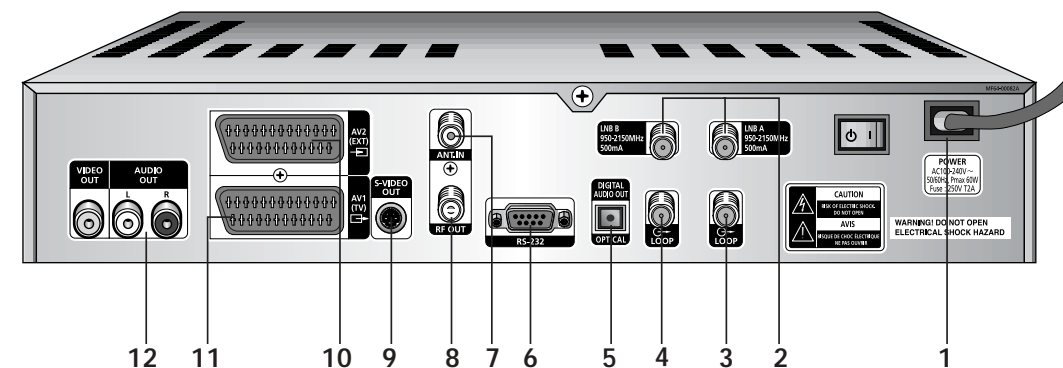


1.  This key is used to turn the receiver on and off (Standby).
2.  These keys are used to change the channels.
3.  These keys are used to increase and decrease the volume level manually.
4. **7 Segment Display** This LED display will show the current channel number. While the receiver is in Standby mode, the display will show the current time.
5. **CAM Slot** Slot for Common Interface.
6. **Infrared Sensor** This is to receive the IR commands from the Remote Control Unit.

**Note :** CA modules and smart cards are only distributed by service Providers and special distributors, not by SAMSUNG.

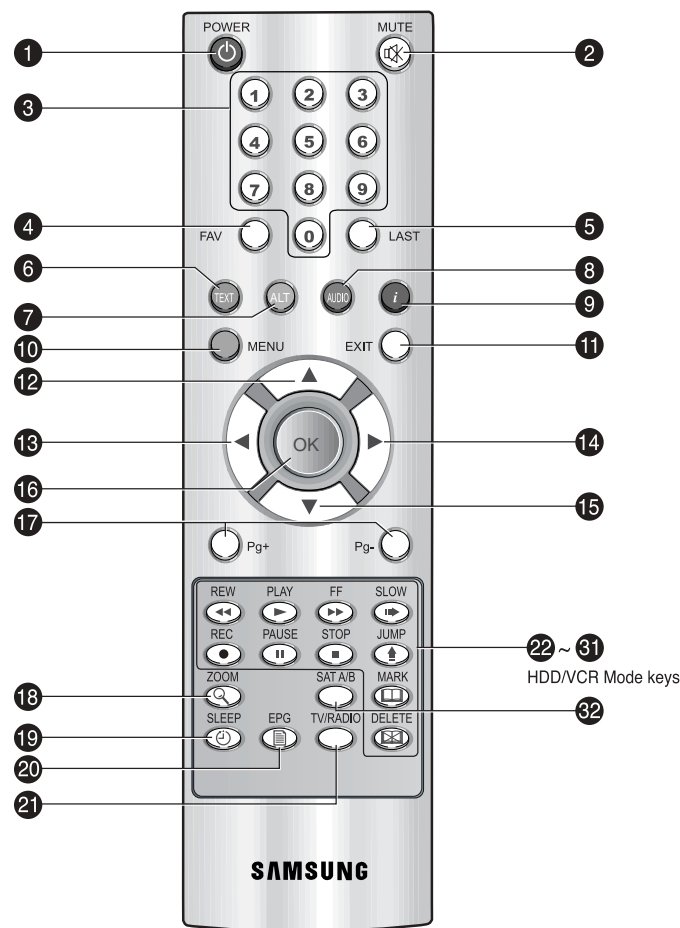
### DESCRIPTION

### Rear Panel



1. **AC MAINS** This is to plug in the AC mains power cord. The input AC voltage range is 100V to 240V, 50Hz/60Hz supply.
2. **LNB A, B** This port is to connects the satellite antenna cable. Up to 2 cables can be connected your dish. The IF input is provided through this port and the input frequency range is 950-2150 MHz. Also the voltage switching 13V and 18V is passed through this port.
3. **LOOP 1** Use to connect another STB or LNB B.
4. **LOOP 2** Use to connect another STB.
5. **DIGITAL AUDIO OUT (SPDIF)** Use to connect audio receivers and other equipment with digital inputs.
6. **RS 232 DATA PORT** This is used to connect your receiver to a computer for reading and loading data information.
7. **ANT.IN** Use to connect your local RF channels to your TV through Loop.
8. **RF OUT** Use to connect your TV via RF cable.
9. **S-VIDEO OUT** Use to connect components with Super Video capability.
10. **AV2(SCART)** Use to connect your VCR or other equipment.
11. **AV1(SCART)** Use to connect your TV.
12. **VIDEO, AUDIO R/L** Use to connect video and audio from components.

## Remote Control Unit



**Note :** When inserting batteries, make sure that the polarity(+/-) is correct.

- 1. POWER** Power on/Standby.
- 2. MUTE** Muting. ("Silence mode")
- 3. Numerical keys** Selection of a channel, input of a numeric value during operation.
- 4. FAV** Switches between favorite lists. (FAV lists)
- 5. LAST** Returns to the last channel.
- 6. TEXT(green)** Select the text (teletext / subtitle) mode.
- 7. ALT(yellow)** Calls up soundtrack list in current channel.
- 8. AUDIO(blue)** Changing the audio to left, right or both channels.
- 9. i (red)** Calls up the program information (not transmitted by all channels).  
Use to display the duration time and progress time in the HDD mode.

- 10. MENU(orange)** Calls up the main menu.  
Use to display mosaic player mode in the HDD mode.
- 11. EXIT** Exits a menu or removes an overlay. (e.g. list)
- 12. ▲** Up key for changing channels and menu items.
- 13. ◀** Left key for reducing the volume level, for browsing in lists and for switching between individual menu items.
- 14. ▶** Right key for increasing volume level, for browsing in lists and for switching between individual menu items.
- 15. ▼** Down key for changing channels and menu items.
- 16. OK** Select a menu, or confirm the selected operation. And display the channel list during watching a channel.
- 17. Pg+, Pg-** These keys are used to move up or down pages the menu or saved file lists.
- 18. ZOOM** This key is used for zooming a certain area on the screen.  
Pressing the key zooms a selected area in X2 and X4 rate in the vertical and the horizontal direction respectively.
- 19. SLEEP** Displays sleep time. When sleep time, the power automatically turns to the OFF mode, and the PVR to the STANDBY mode.
- 20. EPG** Calls up the electronic program guide.
- 21. TV/RADIO** Switches between TV and Radio programs and lists.

### HDD/VCR Mode keys

- 22. REW** Rewind the program. Each time you press this key, the scenes is rewind more faster(x2, x4, x8). Keep pressing the key to operation the system in the skip backward mode. Releasing the key plays the system in normal speed.
- 23. PLAY** Directly go to video play mode. And playback with normal speed in video play mode.
- 24. FF** Fast forward the program. Each time you press this key, the scenes is forwarded more faster(x2, x4, x8). Keep pressing the key to operation the system in the skip forward mode. Releasing the key plays the system in normal speed.
- 25. SLOW** Slow motion playback. You press again this key, scenes is displayed more slowly.
- 26. REC** Use to select to immediately record the current broadcasting channel.
- 27. PAUSE** Video play pause/resume. Use to set time shift start.
- 28. STOP** Stop playback or recording.
- 29. JUMP** The system returns to the point of a bookmark, and performs playback from the point.
- 30. MARK** Add bookmark. You can specify up to five bookmarks.
- 31. DELETE** Delete bookmark.
- 32. SAT A/B** Switches between satellite A and satellite B.

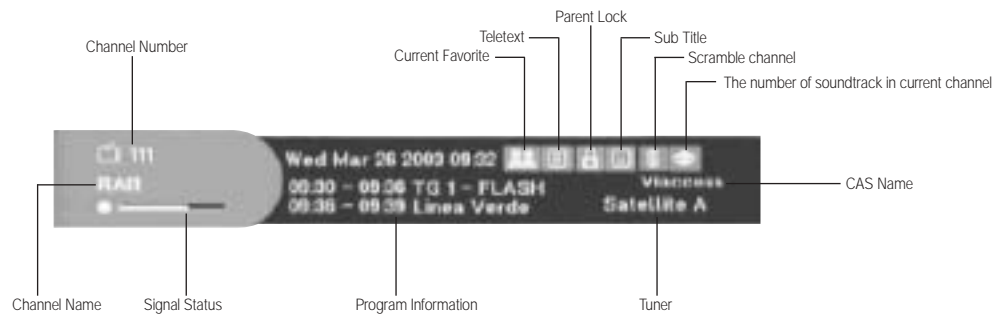
# BASIC FUNCTIONS

## 1. Display Screen

Before you can view the television program, you must perform the installation.

Therefore you will see only menu images at first.

After the television channels have been programmed, you will see the following picture(banner) each time you switch channels:



- Press the **Red (i)** key in view mode.
- Select the channel by pressing the **Numerical (0~9)** keys or **▲ / ▼** keys and select the **TV/RADIO** key to move to TV or Radio channel.

You will also see this picture each time you change channels.

When you press the **TV/RADIO** key on the Remote Control Unit, **TV** and **Radio** program are toggled.

### Detailed program information

- Press the **Red (i)** key twice while you are viewing a program.

First you will see the banner described above.

After the **Red (i)** key is pressed in the second time, detailed information for current program can be displayed on another banner, if there is more information. When this information is more than one page, **Pg+/Pg-** keys can be used for page up and down.

**Note:** This service depends on service provider.

## 2. Volume Control



To control the volume level :

- Press the **◀** or **▶** keys to adjust the volume level.
- Press the **MUTE** key to turn to silence mode.
- Press the **MUTE** key again or **◀ / ▶** keys in order to cancel muting.

## 3. Select Soundtrack

- Press the **ALT** key to see the soundtrack list.
- Press the **▲ / ▼** and **OK** keys to select one.





## 4. Select Videotrack

- Press the **ALT** key twice to see the videotrack list.
- Press the **▲ / ▼** and **OK** keys to select one.



## 5. Service List

- Press the **OK** key while you are viewing a program.
- Select list by pressing the **TV/RADIO** or **FAV** key.

The icon  behind the channel name symbolizes scrambled channel, and the  icon behind the channel name symbolizes parental locked channel.

- Select the channel by pressing the **▲ / ▼**, **Pg+/Pg-**.
- Press the **OK** key to watch that channel.



The colour keys correspond the following service list.

- **Green** key : Favorites
- **Yellow** key : Alphabetical
- **Blue** key : Provider
- **Red** key : Transponder

## 5.1 Service Favorites

- Press the **green** key on the control unit to select the Favorites list.
- Press the **green** key to toggle group and channel list.
- Use the **▲ / ▼**, **Pg+/Pg-** keys to select a favorite group or a channel that you want.



## 5.2 Service Alphabetical

- Press the **yellow** key on the remote control unit to select the Alphabetical list.
- Press the **yellow** key to toggle group and channel list.
- Use the **▲ / ▼**, **Pg+/Pg-** keys to select a Alphabetical group or a channel that you want.



## 5.3 Service Provider

- Press the **blue** key on the remote control unit to select the Provider list.
- Press the **blue** key to toggle group and channel list.
- Use the **▲ / ▼**, **Pg+/Pg-** keys to select a provider group or a channel that you want.



## 5.4 Service Transponder

- Press the **red** key on the remote control unit to select the Transponder list.
- Press the **red** key to toggle group and channel list.
- Use the **▲ / ▼**, **Pg+/Pg-** keys to select a Transponder group or a channel that you want.



## 6. Program Information

### EPG-Electronic Program Guide

The electronic program guide gives you program information for the channels.

- Note :**
1. This service depends on service provider.
  2. After receiver recognized the GMT-time from the signal which takes few seconds, it can display correct EPG information.

- Press the **EPG** key while you are viewing a program.

This function is displayed on the screen by using only time. You will see "EPG" in the LED display of the receiver.

- **Green** key : Use to display the program list until this day last week by going back per one day.
- **Yellow** key : Use to display the program list until this day next week by going forward per one day.
- **Red** key : The key is used for scrolling down the screen when information in the EPG information window exceeds the size of the window.
- **Blue** key : The key is used for scrolling up the screen to view information in the EPG information window.
- **◀ / ▶** keys : Use to display the program list by 30minutes per block.
- You can set the time interval in EPG with the numeric keys. (e.g., pressing 1 setting to one and half hours, 2 to 30 minutes, and 3 to 15 minutes)
- **REC** key : The key is used for reserved recording in EPG mode.

With the **TV/RADIO** or **FAV** key you can browse among the various programs lists.

- Select the channel by pressing the **▲ / ▼**, **Pg+/Pg-** keys and press the **OK** key to watch this channel.



## 7. Subtitle

When the current broadcasting program provides subtitle, press the **TEXT** key to see the current subtitle language list. If Subtitle is available on current program, [S] is displayed on the banner after changing program(channel) or pressing the **red(i)** key.

### To change the subtitle language:

- Press the **TEXT** key to see the subtitle language List.
- Use the **▲ / ▼** keys to select a subtitle language you want.
- Press the **OK** key and then the subtitle language you want is displayed.

The menu display is carefully created and user friendly to assure the easy operation of the receiver by the user.



## 8. Teletext OSD

When the current broadcasting program provides Teletext OSD, press the **TEXT** key twice to see the current Teletext OSD list.

### To change the Teletext OSD:

- Use the **▲ / ▼** keys to select a **Teletext OSD** you want.
- Press the **OK** key and then the **Teletext OSD** you want is displayed on the screen.



## 9. Teletext VBI

When the current broadcasting program provides **Teletext VBI**, press the **TEXT** key three times to see the current Teletext VBI list.

### To change the Teletext VBI:

- Use the **▲ / ▼** keys to select a Teletext **VBI** you want.
- Press the **OK** key and then the Teletext **VBI** you want is displayed on the screen.

**Note :** A television with TV functions supported shall be used.  
The system shall operate with the subtitle turned off.



## 10. Audio Mode

You can choose a mode among left, right or stereo using the **AUDIO** key.

### To change the audio mode:

- Press the **AUDIO** key and use or key to select the left, right or stereo.
- Press the **EXIT** key to save and escape from this menu.



## 11. SLEEP

The function automatically switches off the system at the end of a time setting.

Press the **SLEEP** key.

Available time settings are: 10 minutes, 20 minutes, 30 minutes, 60 minutes, 120 minutes and Off.



## 12. ZOOM

The keys are used for zooming a specified area on the screen in Live mode, Time-Shift or Full mode.

- Pressing the **ZOOM** key displays a small window for PIP on the right bottom on the screen.  
Then, the screen is frozen.
- Whenever you press the **ZOOM** key, the cyan square box for PIP is displayed on the full screen.  
A selected area is zoomed in X2 and X4 rate in the vertical and the horizontal direction respectively to be displayed on the full screen.
- Press the **◀ / ▶ / ▲ / ▼, Pg+ / Pg-** keys to move to an area for zooming.
- Pressing the **EXIT** key exits ZOOM mode.
- During timeShift or operation in the Full Play mode, PVR functions including PLAY, SLOW REW, PAUSE, and FF are available.



## Main Menu

After installing your antenna system and DSB-9601C with appropriate connectors.

- Plug in the AC main power and switch on the receiver.
- Press the **MENU** key to bring up the main menu.  
The LED display will show "MENU".

The following on screen display will appear:

The sub menu topics will be displayed.

Before you begin with the "Installation" menu, you should check in the 4th menu "System Setup" whether all the information there is applicable for you.

Input the PIN code before selecting the Channel Organizing and Parental Lock menu.



Set the Satellite Connection Type in the "System Setup" menu,

- Select the System Setup by pressing the **MENU** key and **▲ / ▼** keys, then press the **OK** key or **▶** key.
- Select the Satellite Connection by pressing the **▲ / ▼** keys and **OK** key.
- Select the desired connection type by pressing the **◀ / ▶** keys and **OK** key.
- If two tuners share one LNB, select Loop Through. If a service is being recorded, the other tuner can receive only the signal of the same band and polarity as being recorded in this configuration.
- If the tuners are connected to separated LNBs (or Dual LNB), select Separate A, B.  
There is no restriction as in the Loop Through configuration.

**Note:** It is not allowed to enter Satellite B setting menu in Loop-through mode.

## 1. Installation

This menu consists of 5 sub-menus:

- Select the satellite A or B by pressing the **SAT A/B** key.
- Select "Installation" in the main menu mode to select the sub menu.
- Enter the **PIN** Code.

If you have not entered your own **PIN** Code then the **PIN** Code **0000** applies, which was set at the factory.



## 1.1 LNB Setting

You can select the satellite and LNB setting conditions to execute channel search and you can alter the settings for 22KHz tone.

The parameters set in this menu are needed for programming the channels for the "Auto scanning" and "Manual scanning".

The necessary information can be found at your antenna and LNB brochures, or you can ask your dealer.

- Select LNB power supply "On".

**Note:** If the LNB power is set to "Off", channels will not be scanned.

- Select the desired satellite name.
- Select the LNB type (frequency).
- Select the DiSEqC Mode (Off, DiSEqC A, DiSEqC B, DiSEqC C, DiSEqC D, Tone Burst A, Tone Burst B)

If you are using a Positioner, select Positioner DiSEqC1.2 . ("Yes" or "No")

**Tone 22KHz:** In case you are using a dual LNB or two antennas connected to a 22KHz tone switch box, with the 22 KHz tone switch ("Auto", "On" or "Off") you can switch between both LNB or antennas.



## 1.2 Positioner Setting

If you have a DiSEqC 1.2 motorized system, then you can take advantage of the DiSEqC 1.2 functions available.

- Select Satellite.
- Select any transponder from above satellites and check out the Frequency, Symbol Rate, FEC and Polarity.  
In case problems arise, ask your dealer.
- **Select from Menu Mode:**

"User Mode" : This is used to fine-tune the position of the motor for better reception.  
General user uses "User Mode".

"Installer Mode" : This is used to search for the position of a satellite manually.



■ User Mode

● Select Driving Mode & Driving Size:

You have an option to choose the positioner's movement type: Continuous, Step(Impulses) or Time(Seconds).

- Position the antenna with north, south, east and west and use the ◀ / ▶ / ▲ / ▼ keys to drive motor. ◀ key drives to west, ▶ key drives to east, ▲ key drives to north and ▼ key drives to south.

- If you finished driving of motor, select "Store Current Position." and press the OK key, to reset new driving motor.



**Note :** The level indicated in the "Signal Status" is only for reference. The signal quality may be adequate even though the level indicated is not maximum.

● Go to Stored Position.

When the stored position is reached then screen displays "Stop", you can now continue with the further operations.

- Select the **Calculate Sat Positions** to recalculate the satellite position and OK key.

■ Installer Mode

After checking the positioner's state, installer should use this menu. He should set the "Disable Limits" before using User mode.

- Select the Drive Motor West/East and use the ◀ / ▶ / ▲ / ▼ keys to drive motor. ◀ key drives to west and ▶ key drives to east.
- Select "Enable Limits", in order to enable "Set Limit".
- Select "Disable Limits", in order to disable "Set Limit".
- Select "Reset Positioner" and OK key to reset positioner.



1.3 Auto Scanning

The sub menu "Auto Scanning" will enable download of the channels automatically from the preprogrammed satellites.

To download channels automatically:

You can select Off /All//Only Free option mode in each satellite.

**Off** : No Scan

**All** : Scan all the channels

**Only Free** : Scan free channels

- Press the OK key. Auto Scanning menu will be displayed.

All the channels in the list from the selected satellite will be automatically downloaded.



1.4 Manual Scanning

To tune-in new channels and weak signals, the DSB-9601C has been provided with the option "Manual Scanning" where the channel data can be entered by the user. After selecting the "Manual Scanning" from the Installation Menu, the following screen will be displayed:

- Select the target satellite for manual search.
- Load a transponder. This option will enable the user to load any transponder from the preprogrammed list available within the receiver.

**Note :** Especially on New transponder at Load TR, this new transponder can be added into transponder list so that you can use it on Auto Scanning later, only if at least one channel is found with this new transponder. In order to save it, press the OK key.



- Input the frequency of the transponder you want to find.
- Input the symbol rate of the transponder you want to find.
- Select the FEC(Forward Error Correction)of the transponder you want to find. You can select the value of 1/2, 2/3, 3/4, 5/6, 7/8 or Auto.
- Select the polarity of the transponder you want to find. **(Horizontal/Vertical/Circular Left/Circular Right)** In the case of horizontal, 18V and in the case of vertical, 13V are output through LNB line.

- Select Scan Mode "All" or "Only Free".
- Select Network Search "Yes". You can get more channels from transponder using the homing transponder. Additionally, you can get 'Net Name' on the screen.
- Select PID searching "Yes". You can manually search by entering individual PID (Packet Identifier) (Video/Audio/PCR) values.
- After select option, press the **OK** key to start the scan process.

### 1.5 SMATV Scanning

In case that several generations use Antenna and LNB. in common, search the service the from 950 to 2150MHz.

- Select Searching Type "Automatic" or "Manual".
- Select Scan Mode "All" or "Only Free".
- You can input alternative symbol rate from 1 to 4.

**Note :** 1. When your searching type is set to Automatic during SMATV scanning, you have only to enter the alternative symbol rate(1~4) you want.

2. When your searching type is set to Manual during SMATV scanning, you must enter both frequency and symbol rate.

When you select "Automatic", STB will search all available channels based on symbol rates over whole frequencies.

On the other hand, it will scan channels with exact information for symbol rate and frequency on "Manual".



## 2. Channel Organizing

The "Channel Organizing" menu has 8 functions.

- Enter the **PIN** Code.  
If you have not entered your own **PIN** Code **PIN** Code **0000** applies, which was set at the factory.



### 2.1 Delete Satellite

- Select the desired satellite list you want to delete by pressing the **red** key.
- Press the **OK** key for confirmation.

**Note :** This feature doesn't delete satellite itself but deletes the list of channels registered for satellite.



### 2.2 Delete Transponder

- Select the desired transponder list you want to delete by pressing the **red** key.
- Press the **OK** key for confirmation.

**Note :** This feature doesn't delete transponder itself but deletes the list of channels registered for transponder.



### 2.3 Delete Channel

- Select the desired channel you want to delete by pressing the **red** key.
- Press the **OK** key for confirmation.



## 2.4 Delete All Channels

At the request window, press the **OK** key to delete all channels and press the **EXIT** key to exit.



## 2.5 Delete Scrambled Channels

At the request window, press the **OK** key to delete scrambled channels and press the **EXIT** key to exit.



## 2.6 Favorite Channels

You can immediately register the present channel to the desired Favorite Group.

In addition, you can register a channel to multiple favorite groups.

- Select the desired Favorite Group (FAV1 ~ FAV9) using the **FAV** key.
- Select the desired channel list using the **▲ / ▼** or **Pg+/Pg-** keys at the TV or RADIO list window.
- Press the **red** key and then register the selected channel at the Favorite Group.
- Then press the **OK** key for confirmation.



You can change TV list or Radio list by the **TV/RADIO** key and change favorite list by the **FAV** key.

- When you press the **TV/RADIO** key, TV list and Radio list are toggled.
- Press the **FAV** key to select another favorite list.

### To delete channels from Favorite Group:

- Select a channel list to delete with the **▲ / ▼** or **Pg+/Pg-** keys.
- Press the **red** key to delete the selected channel from the favorite channels.

## 2.7 Move & Edit Channel

- Select the TV/RADIO list with the **◀ / ▶** keys.
- Select the TV/RADIO list with the **▲ / ▼** or **Pg+/Pg-** keys.
- Select channel by pressing the **red** key.
- Press the **▲ / ▼** or **Pg+/Pg-** keys to change the position of the channel you want, and press the **OK** key for confirmation.
- If you want to return the channel to the initial position, do not press the **OK** key but press the **blue** key.



### To edit Channel Name

- Select the TV/RADIO list with the **◀ / ▶** keys.
- Select a channel list to move to other location with the **▲ / ▼** or **Pg+/Pg-** keys.
- Press the **green** key. Font Table will be displayed.
- Select desired font table using the **Num.1~5** keys.
- Select desired character with the **◀ / ▶, ▲ / ▼** key and then press the **OK** key to paste character to the string.



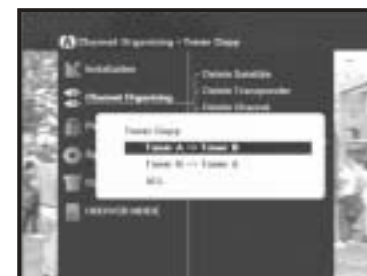
**Note :** **Pg-** key : Backspace

- Press the **MENU** key and then press the **OK** key to save the set data.

## 2.8 Tuner Copy

Copies the "TV/Radio channel list" registered in Tuner A to the "TV/Radio channel list" in Tuner B and vice versa. It is also available copy the all contents between Tuner A and Tuner B.

- Select "How to copy with **▲ / ▼** keys" (**Tuner A → Tuner B, Tuner B → Tuner A or ALL**).
- Press the **OK** key to complete the copy.



### 3. Parental Lock

This **“Parental Lock”** feature sets viewing restrictions and prevents unauthorized access to your DSB-9601C through the PIN (Personal Identification Number), which is a 4 digit number. (The factory preset PIN Code : **0000**)

On selecting this menu, you will have two options: to set lock for any desired channel and to change your PIN Code.

- Enter PIN Code.

If you have not entered your own PIN Code then the PIN Code **0000** applies, which was set at the factory.



#### 3.1 Set Channel Lock

- Select the TV or RADIO channel window by pressing the ◀/▶ or **TV/RADIO** key.
- Select the channel by pressing the ◀/▶ or **Pg+/Pg-** keys.
- Select the channel lock by pressing the **red** key.
- Press the **OK** key for confirmation.

Whenever you need to view the locked channel, you will have to enter the PIN Code at the request window.

**Note :** When the system is kept power on, you may enter PIN Code only once. However, you must enter the code again when the system is turned on from the standby mode.

**To cancel the lock:**

- Press the **red** key again in order to cancel the lock.



#### 3.2. Change PIN Code

To change the PIN Code, select the second option **“Change PIN Code”**.

**This will take you to the following menu:**

In this option, you need to enter the current PIN Code at the first cursor, and at the second cursor enter the desired PIN Code.

To confirm, you need to enter the new PIN Code again.

Please remember the PIN Code should be a 4 digit numerical value.

THE FACTORY PRESET PIN CODE : **0 0 0 0**.

**Note :** If you forget the PIN Code, contact your dealer or service provider. Once you change password, please do not forget and keep well.



## 4. System Setup

This option enables you to change the factory preset system settings as per your requirements.

### 4.1. Language Selection

The "Language Selection" option allows the user to select the desired language of the OSD, Soundtrack, Teletext, Subtitle and EPG.

- To accommodate user from different regions speaking different languages, OSD languages are available 19 languages.
- To select the desired language menu, press the ◀/▶ keys to change language and press the **OK** key.
- The OSD, Soundtrack, Teletext, Subtitle, or EPG language will vary according to the selected language.



### 4.2 OSD Setting

You can set the OSD transparency and the display time.

- Select OSD Transparency level.  
The OSD Transparency level from 0 to 100%.  
Setting is made with the numeric keys, the ◀/▶ keys or **Pg+/Pg-** keys.  
◀/▶ keys : Setting in increment of 1%.  
**Pg+/Pg-** keys : Setting in increment of 10%.
- Set the display duration of the information(banner) box displayed in the screen.  
The time ranges from 0.5 to 60.0 seconds.  
Setting is made with the **Numerical (0~9)** keys, the ◀/▶ keys or **Pg+/Pg-** keys.  
◀/▶ keys : Adjusting in increment of 0.5sec.  
**Pg+/Pg-** keys : Adjusting in increment of 1 sec.



### 4.3 Media Settings

You can set the various media settings you want. Place the cursor on this sub menu and press the **OK** key.

- Press the ▲/▼ keys to move the sub items and press the ◀/▶ keys to select the option.
- Press the **OK** key to confirm.
- Press the **MENU/EXIT** keys to exit the menu.
- Select the TV system : **PAL** or **SECAM**.
- Select the TV Aspect Ratio according to your TV : **STANDARD 4: 3** ratio or **WIDE SCREEN 16 : 9** ratio type.
- Select the Aspect Ratio Conversion : **Letter box, Pan & Screen, Mixed** or **Full**.
- Select the Video Signal Type : **Composite** or **Composite+RGB**.
- Select the format of SPDIF output : **Compressed** or **Uncompressed**
- Select the RF Channel.
- Select Broadcasting System : **B/G, I** or **D/K**.



### 4.4 Time & Timer Setting

Various time modes can be set, such as current local time, switch on/off time. The exact local present time can be adjusted by using the GMT.

- Place the cursor on this sub menu and press the **OK** key.
- Press the **Pg+/Pg-**, ◀/▶ keys to change the Local time in Time Zone.  
The local time will be changed according to your location. GMT is referred to the standard time of Greenwich. This cannot be changed.
- Press the ◀/▶ keys to choose Event Repetition you want to reserve : Once, Daily, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday and Every Saturday.
- Insert the preferable Switch on/off time by the **Numerical (0~9)** keys and ◀/▶ keys.  
The switch on time menu sets up the time the PVR automatically turns on. The switch off time menu sets the time of the PVR automatically turn off.
- Select TV program to set the event program by pressing the ◀/▶ keys.  
When you press the **TV/RADIO** key, TV program and Radio program are toggled. The TV program menu automatically turns the PVR to the preset channel when it automatically turns on by the switch on time function.



### 4.5 System Information

If you have to contact your service provider or a service center they might ask for information available from this menu. Place the cursor on this sub menu and press the **OK** key.



### 4.6 Software Upgrade

You can download and upgrade the software of this **STB** through ASTRA, Sirius and Hotbird satellite when the new software is released.

During downloading don't turn off the **STB**.

If there is a new version of software to download, you are asked if you will update or not. If you press the **OK** key, the update starts right away.

In case update is impossible, you get this message

**"You can't update software!"** Or in case you don't need to update, **"You don't need to update software!"** will be displayed.

If you get information that a Transponder is changed to different one for Samsung software, you should select 'User Advanced Mode' at Menu mode by using **◀/▶** keys. Then you should set exact parameters for the new transponder for Samsung. During inserting any CAM, you may have distorted video or audio. It doesn't mean STB is wrong.

**Note :** Upgraded satellite channels may be added or changed. Contact your dealer for further information.



### 4.7 Satellite Connection

Set a connection type in accordance with connection with a satellite dish.

### 4.8 Reset to Factory Defaults

This to restore the factory set values in case the user has encountered some problems after changing any values of channel data and others which may be in error.

- Enter the PINCode.

The screen display will be as follows:

At the request window, if you press the **OK** key, the receiver will be reset to factory default settings automatically.

**Note :** This cause your previous settings to be deleted!  
Contents stored in a hard disk drive are not eliminated.



## 5. Common Interface

This STB is equipped with two PCMCIA slots, which enable the use of two CI-CAMS.

When a Common Interface CAM is inserted inside the PCMCIA slot, the system detects the type of the CAM automatically and display in the main menu.

On choosing this menu, you will be able to access the different options available with the type of the CAM like authorizations, pre-booking, package details etc.,



**Note :** The menu differs according to each inserted CAM. If the module has not been installed yet, the phase "Not Installed" will be accordingly indicated.

## 6. HDD/VCR Mode

Your PVR temporarily saves the present program you are watching on the embedded hard disk drive. Therefore, you can enjoy some effects similar to the VCR playback functions. You can conveniently play or pause the program which is being broadcasted.

### 6.1 TimeShifting

When you have paused a program, there occurs a time difference between the program you are watching and the live program that is being broadcasted. It is as much as the time that the pause mode has continued.

- TimeShift mode gets operable when you press the **PAUSE** key on Live screen.
- TimeShift duration and total available TimeShift size are displayed on the right of the progress bar on the bottom of the screen, and a still image of a live channel is displayed.
- A text 'TimeShift' is displayed on the top right corner on the screen, and 'TIME' on the seven segments of the set.
- Resume playback of the program from the point where the program has been interrupted of playing by pressing the **PLAY** key on the initial standby screen.
- Operation of PVR functions (**FF**, **REW**, **PAUSE** and **STOP**) is available after the playback.
- If the playback point precedes the current broadcasting point by FF of PVR function, PLAY of PVR function automatically operates.
- Exit TimeShift mode by key operation of **▲/▼/EXIT/STOP/POWER/MENU**.



**Note :** The timeshift available time depends on the free space of HDD. It can reach from minimum ten minutes to maximum five hours. To operate HDD, at least a space of ten minutes should be left in HDD.

## 6.2 Recording while TimeShift mode

Contents of current TimeShift are switched to recording in files.

- **REC** switches contents of TimeShift to recording, and recording size is displayed red on the top right corner.
- Press the **REC** key to cancel switching to recording.
- Recorded contents are those from starting to exiting TimeShift, not those stored when a user presses the key.
- Letter **'T'** is assigned to the last character of a record file name for differentiating from other existing record files.



**Note:** TimeShift is not available while recording.  
The minimum requirements for running TimeShift are 10-minute's HDD space.

## 6.3 Recording Immediately

- Press the **REC** key to start recording immediately for the program you are watching.
- A record icon and record duration are displayed on the top right corner.
- A channel of recording and free space of HDD are displayed in Information box on the bottom of the screen.
- **"REC"** is displayed in the seven segments of the set.



### To exit recording

- Pressing the **STOP** key prompts a message reading **"Stop recording?"**
- Press the **OK** key to store the recorded contents and return to the live screen.

**Note:** It is allowed to switch to another channel while recording.

- **In Separate mode**, it is allowed to switch between channels when a channel for switching is of a satellite and a transponder same as the recording channel.
- **In Separate mode**, it is allowed to switch between channels when a channel for switching is of a satellite different from that of the recording channel.
- **In Loop-Through mode**, it is allowed to switch between channels when a channel for switching is of same transponder.
- **In Loop-Through mode**, it is allowed to switch between channels when a channel for switching is of different transponder, but same LNB voltage.
- TimeShift is not available while recording.
- File playing is available while recording.

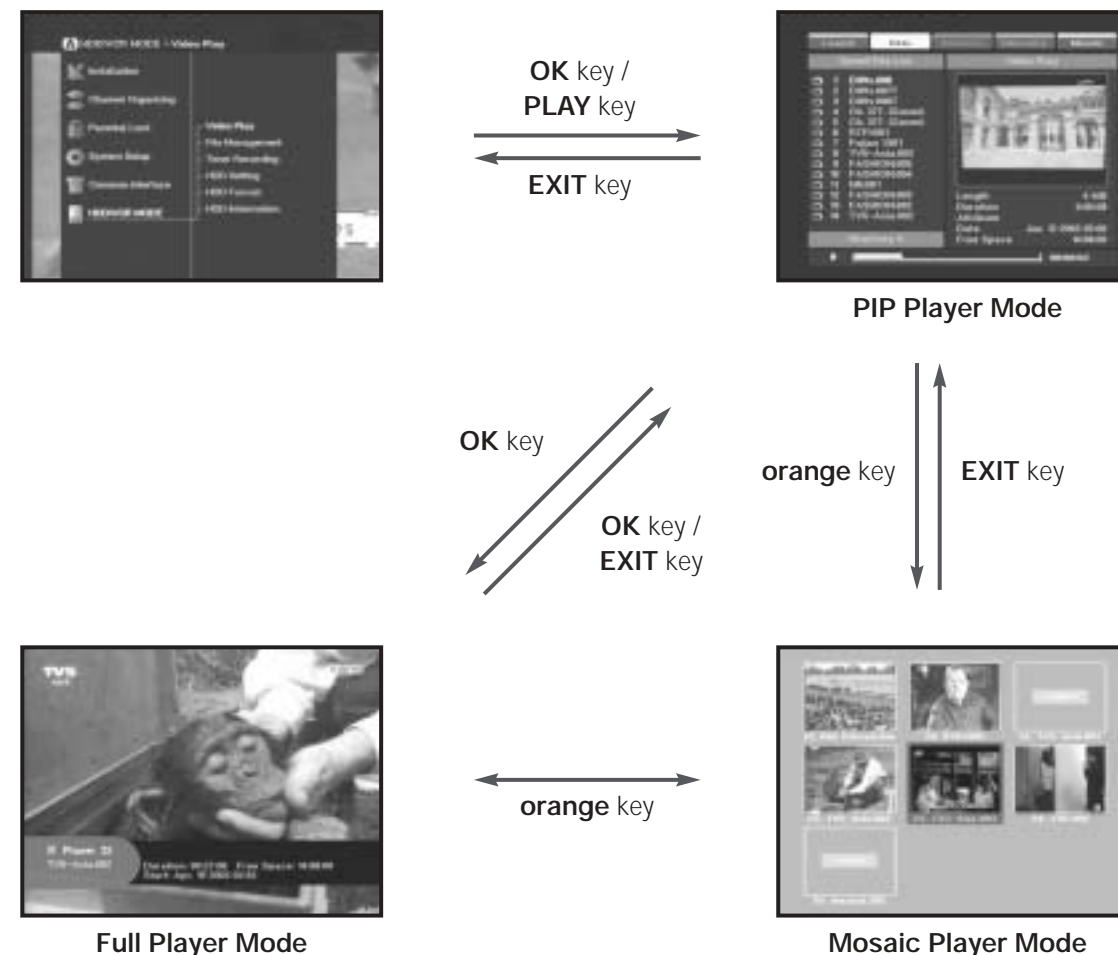
### 6.4 PVR Functions

You can operate PVR functions in the TimeShift mode, Video Play mode or File Management mode.

- **Using PAUSE**  
To pause the picture or playback, press the **PAUSE** key.  
Press the **PAUSE** or **PLAY** keys to quit pausing.
- **Using PLAY**  
Directly go to video play mode. And playback with normal speed in video play mode.
- **Using SLOW**  
To playback in slow motion, press the **SLOW** key.  
Playing speed is toggled between x1/2 (▶ x1/2) and x1/4 (▶ x1/4) dependent upon number of key pressing.
- **Using REW**  
To rewind the picture or playback, press the **REW** key.  
Playing speed is toggled between x2 (◀ x2), x4 (◀ x4) and x8 (◀ x8) dependent upon number of key pressing. Keeping pressing the key operates the system in Backward Skip mode. Interval of skip is 1/50 of the entire playing duration.
- **Using FF**  
To forward the picture or playback, press the **FF** key.  
Playing speed is toggled between x2 (▶▶ x2), x4 (▶▶ x4) and x8 (▶▶ x8) dependent upon number of key pressing. Keeping pressing the key operates the system in Forward Skip mode. Interval of skip is 1/50 of the entire playing duration.
- **Using STOP**  
Pressing the **STOP** key stops the current operation, and returns to the beginning of the operation.
- **Using BOOKMARK**  
You can jump to a position directly by bookmark function in video play mode.  
To add a bookmark, press the **MARK** key at the position you want to add it.  
Up to five bookmarks are available.  
It is possible to set an area for deleting (Cut Area) with **MARK** key in File Management mode.
- **Using DELETE**  
To delete the bookmark, press the **DELETE** key.  
The predefined bookmarks appear in the timetable.  
To delete the bookmark, select it with the ▲ / ▼ keys and press the **OK** key.  
The bookmark is deleted.  
To restore the bookmark, select the deleted bookmark list by pressing the ▲ / ▼ keys and press the **OK** key.
- **Using JUMP**  
You can move to a bookmark position directly by pressing the **JUMP** key.

### 6.5 Video Play

Video Play mode includes Picture-in-Picture (PIP) Player mode, Full Player mode and Mosaic Player mode. Below is description of operating respective modes:



● **PIP (Picture in Picture) Player Mode**

- The recorded programs are displayed in the left Save File List box. And in the box at the right bottom side, the file size (save length), duration, recording date & time, attribute information of selected recorded program is displayed and free space of HDD.
  - In addition, the recorded program is displayed on the PIP screen at the right window when the particular saved file is selected.
  - Type of TV and radio of a recording file is indicated with an icon on the left of the file name.
  - The current directory is displayed on the bottom of File List box.
- There are five directories: A, B, C, D and E.



- Length (green)** : Each key pressing displays the files in order or reverse order of sizes.
- Date (yellow)** : Each key pressing displays the files in order or reverse order of time of storing.
- Alpha (blue)** : Each key pressing displays the files in order or reverse order of alphabets.
- Directory (red)** : Pressing the key changes the directory of the file lists.
- Mosaic (orange)** : Pressing the key changes the mode to Mosaic Play mode.
- PVR functions are available.
- Setting Play mode to Repeat at HDD setting automatically repeats file playback.
- Setting to One Time stops playback upon completion of playback once.
- The status bar on the bottom of the screen indicates playback size and a bookmark.

**Note :** It is not allowed to play a locked channel on PIP. The channel shall be changed into Full Player mode for playback. CAM is necessary for scrambled channels.

● **Full Player Mode**

- On the bottom of the screen, recording information is displayed including recording file name, recording size, free space, and recording start time.
- The index of a current playback file is indicated in the seven segments.
- The current playback size is displayed on the top right corner of the screen.
- Pressing the **red** key displays the status bar, and pressing again the key the information of a recording file.
- PVR functions are available.
- Once you play a file while recording, the recording size is displayed on the top right corner of the screen.



● **Mosaic Player Mode**

- Still images of a playback file are displayed in nine small windows.
- A message reading "Scrambled" is prompted for a scrambled file.
- Of nine windows, on window in red is for animation playback. The red window can be selected with the ◀/▶/▲/▼/Pg- or Pg+ keys.
- Pressing the **OK** key displays the red window in full screen. Pressing again the **OK** key in the full screen displays the nine small windows again.



**Note :**

- PVR functions are not available in Mosaic mode. You shall switch the mode to Full Player mode with the orange key to enable PVR functions.
- It may take several seconds when you enter the initial Mosaic mode or switching between pages.
- The radio channel, the lock channel, and the scrambled channel prohibited of decoding are not allowed of displaying in full screen, or switching to Full Player mode.

## 6.6 File Management

Stored files are available of Deleting, Copying, Combining, Cutting, Moving, Locking, Unlocking, Erasing, Making permanently or Renaming.

The Color keys play roles same as those of PIP Player mode.

You can select one of the file management functions with the right or the left arrow key, and the selected function is displayed on the top right corner of the screen.

### ● To delete a file:

- Press the ▲ / ▼ keys to select a file to delete from Saved File list.
- Press the ◀ / ▶ keys to select Delete from the file management functions on the top right corner of the screen.
- Pressing the **OK** key prompts a message reading "Delete file [OK]?"
- Pressing the **OK** key deletes the file.



### ● To copy a file:

- Press the ▲ / ▼ keys to select a file to copy from Saved File list.
- Press the ◀ / ▶ keys to select Copy from the file management functions on the top right corner of the screen.
- Pressing the **OK** key prompts Copy Progress widow, and automatically generates a copy file name with extension of CX.
- If you want to cancel copying a file during the copy operation, press the **EXIT** key.



### ● To combine a file:

- Press the ▲ / ▼ keys to select a file to combine from Saved File list.
- Press the ◀ / ▶ keys to select Combine from the file management functions on the top right corner of the screen.
- Press the **MARK** key. The selected file is highlighted into orange color.
- Select another file to combine by pressing the ▲ / ▼ keys.
- Press the **OK** key to combine them into one file.



### ● To cut a certain area from a file:

- Press the ▲ / ▼ keys to select a file to cut from Saved File list.
- Press the ◀ / ▶ keys to select Cut from the file management functions on the top right corner of the screen.
- Press the **MARK** key to select an area to delete.
- Pressing the **OK** key prompts a message reading "Delete [x%]-[x%]."
- Pressing the **OK** key deletes the selected area.

**Note :** Cutting a specified area reduces the file length, however file duration is not changed. Change in playback duration after the cutting operation indicates deletion of the area.



### ● To move a file to another directory:

- Press the ▲ / ▼ keys to select a file to move from Saved File list.
- Press the ◀ / ▶ keys to select Move from the file management functions on the top right corner of the screen.
- Pressing the **OK** key prompts the directory menu (A – E).
- Press the ▲ / ▼ keys to select a directory for file moving, and then press the **OK** key to complete file movement.



### ● To lock a file:

- Press the ▲ / ▼ keys to select a file to lock from Saved File list.
- Press the ◀ / ▶ keys to select Lock from the file management functions on the top right corner of the screen.
- Pressing the **OK** key changes the attributes of the file to being locked.

### ● To unlock a locked file:

- Press the ▲ / ▼ keys to select a locked file to unlock from Saved File list.
- Press the ◀ / ▶ keys to select Unlock from the file management functions on the top right corner of the screen.
- Pressing the **OK** key unlocks the locked file, and the attribute is changed blank.



● **To make a file permanent:**

This function releases a file with its attribute set to Erasable.

- Press the ▲ / ▼ keys to select an erasable file to release from Saved File list.
- Press the ◀ / ▶ keys to select Permanent from the file management functions on the top right corner of the screen.
- Pressing the **OK** key set the file to Permanent, and changes the attribute blank.

**Note :** The attribute of the first recording file is set to Permanent.

● **To erase a file:**

The purpose of this operation is to change the attribute of a file to Erasable for automatically deleting the file when HDD space becomes insufficient.

- Press the ▲ / ▼ keys to select a file to erase from Saved File list.
- Press the ◀ / ▶ keys to select Erasable from the file management functions on the top right corner of the screen.
- Pressing the **OK** key set the file to Erasable, and changes the attribute of the file.



**Note :** The file is subject to deletion upon insufficient HDD space when recording or in Time-Shift. When the free space is smaller than two hours, the HDD space is deemed insufficient.

● **To rename a file:**

- Font table will be displayed.
- Select desired font table using **Num.1~5** keys.
- Select desired character with ◀ / ▶, ▲ / ▼ and then press the **OK** key to paste character to the string.

**6.7 Timer Recording**

This option allows you to set a preferred channel, time, duration you wanted to record.

**Main Menu→HDD/VCR MODE→Timer Recording** Eight of the timer reservation fields are displayed.

If you want to make reserved recording, select the fields for reserved recording, and then press the **OK** key.

● **Setting Reservation Channel**

- Select the channel using the **0-9, TVRADIO, ◀ / ▶** keys.

● **Setting Reservation Time**

- Pressing the **OK** key activates the fields of month, day, year, hour and minute.
- Press the ◀ / ▶ keys to select the fields.
- Press the **0-9, ▲ / ▼** keys to set the desired values.
- The settings shall be a value later than the current time.



● **Setting Reservation Duration**

- Press the ◀ / ▶ keys or the **Numerical (0~9)** to set duration.

● **Setting Reservation Flag**

- Press the ◀ / ▶ keys to select an option for reservation setting. (one time, Every Day, Every Week)



● **Confirming Reservation**

- Press the ◀ / ▶ keys and the **OK** key to confirm, delete or cancel the settings.

**Note :** If reservations are overlapped, a warning message is displayed, and any changes are not stored. The current time is set to the broadcasting time information first displayed when turning on PVR. The current time information is used for the starting time of file playing. The current time on EGP may be different from that described above due to fault of a broadcasting company.

● **How to operate reserved recording:**

**Upon power-on:** A message is prompted indicating start of reserved recording, and then the power is turned off. Restore the power and proceed with the reserved recording. Once recording is complete, the system is kept with power on.

**Upon power-off:** Turn the power on and proceed with recording. Once recording is complete, the system power is turned off.

### 6.8 HDD Setting

This option allows you to set TimeShift Duration and Play Mode.

Main Menu → HDD/VCR MODE → HDD Setting

- **Setting Play Mode**

Press the ◀/▶ keys to specify repetition of file playback, or one-time playback. (repeat or one time)



### 6.9 HDD Format

This option allows you to format your Hard Disk Drive.

- Select **"HDD Format"** by pressing the ▲/▼ keys.
- Press the **OK** key and the message **"Please enter the PIN Code"** will be displayed.
- Enter the PIN Code and press the **OK** key to confirm HDD formatting.

**Note:** This option causes all your recorded files to be deleted! HDD is not deleted in the factory default.



### 6.10 EPG reserved recording

Press the **REC** key on EPG screen to set reserved recording.

- Pressing the **REC** key changes a selected program is changed to red, and registered in the reserved recording list.
- Pressing the **REC** key again on the program in red deletes the program from the reserved recording list.
- Timer Recording list is used for the recording list.



### 6.11 HDD Information

You can see the detailed specifications of Hard Disk Drive.

Main Menu → HDD/VCR MODE → HDD Information

- **Green** key: Displays FAT map of the hard disk.



● **HDD/VCR MODE MESSAGE**

- **Please stop recording before power down:**  
This message is displayed when you press power key while recording.
- **Please stop recording to see this channel:**  
This message is displayed when you view a channel of another transponder while recording.
- **Please stop recording to work Time-Shift:**  
This message is displayed when you want to make Time-Shift while recording.
- **Stop recording? [OK]:**  
This message is displayed when you stops recording by pressing Stop key.
- **There is no program in HDD:**  
This message is displayed when you view the play list where no file is stored.
- **Delete file? [OK]:**  
This message is displayed when you delete a stored file.
- **Select the range of cutting:**  
This message is displayed when no area is specified for copying with Mark key when you attempt file copying.
- **Error! Reservation time is old:**  
This message is displayed when recording start time of reserved recording is earlier than the current time.
- **Error! Reservation time is overlapped with the others:**  
This message is displayed when reserved recording time is overlapped with a time previously reserved.
- **HDD Full:**  
This message is displayed when there is no free space in HDD.
- **HDD Format Starting:**  
This message is displayed when you start HDD formatting.
- **HDD Format End:**  
This message is displayed when you complete HDD formatting.
- **Require PIN code, press PLAY:**  
This message is displayed when you attempt playing a parental locked file.
- **There is no space to record:**  
This message is displayed when you attempt TimeShift with HDD of free space smaller than 10 minutes.
- **Stop Time-Shift? [OK]:**  
This message is displayed when you press Stop key, or attempt moving a channel or a menu during TimeShift.

## TROUBLESHOOTING

Problem	Possible cause	Solution of the problem
No display LED on the front panel; No power supply	Power cord not plugged in correctly	Power cord plug in correctly
No pictures on the screen	Receiver in Standby mode; Scart not connected tightly to video output of television; incorrect channel or video output selected on television	Set receiver to "On"; Check connection and correct;  Check channel and video output and correct (TV instruction manual)
No sound	Audio cord connected incorrectly; Loudness level = 0; Muting active	Check connection and correct; Increase loudness on television set; Press the MUTE key or volume control keys(Left/Right).
No Audio	Channel has no soundtrack	Press ALT key and check the soundtrack information.
"No Video/Audio Signal" Message	Channel has no soundtrack	Press ALT key and check the soundtrack information.
Remote Control does not operate directly	incorrect operation; Batteries dead or inserted incorrectly	Point remote control towards the Receiver. Replace batteries or insert correctly
Poor picture quality	Signal strength to low	Check the signal strength in the "Auto Scan" menu, correct alignment of your antenna
On-Screen Error Message "Searching for signal"	Antenna cable not connected or not tight; LNB defective; incorrect position of the satellite antenna;	Check connection and correct; Change LNB; Check position and correct, Check the signal strength in the "Auto Scan" menu
On-Screen Error Message "Channel data does not exist."	Satellite not yet set	Scan of in "Automatic scanning" or "Manual scanning" menu
Locked file does not play in PIP mode while HDD playing.	It is not allowed to enter PIN Code for locked file in PIP mode.	Press OK key to switch to Full Screen Play mode, and then press Play key to display the PIN Code Input window. Enter PIN Code and press OK key to activate PIP mode. Any locked files will be played.
No channel is displayed after replacing HDD.	No channel information in a new HDD	Channel information shall be scanned for a new HDD.
Recording Error	No signal or weak signal No smart card or CAM HDD full Frequently touch the RCU on recording	Check the cable connection Insert the smart card or CAM Check the HDD free size. Do not push the RCU keys on recording

## DISPOSAL

The device, packaging material (e.g. Styrofoam) and the batteries must never be disposed of with household refuse. Please obtain appropriate information about the regulations in your community, and dispose of all refuse in accordance with regulations at the separate locations provided.

# TECHNICAL SPECIFICATIONS

## Power supply

Type : SMPS  
Input voltage : AC 100 - 240V~, 50/60 Hz  
Fuse rating : 250 V/T2 A

## Demodulator

Type : QPSK DEMODULATION (DVB-S)  
Symbol rate : 2 ~ 45 Ms/s  
Inner FEC : Viterbi Convolutional  
Coding Rate - 1/2,2/3,3/4,5/6,7/8  
Outer FEC : Reed Solomon Coding (204,188) t = 8

## Tuner

Freq. Range : 950 ~ 2150 MHz  
Input signal level : -70 ~ -25 dBm  
First IF freq. : Zero IF  
Channel selection : PLL frequency synthesizer  
Input impedance : 75  $\Omega$  unbalanced  
Connector type : F type female(RF in/ Loop through)  
LNB power control : 13 V/18 V, 22 KHz tone  
DiSeqC : 1.2 supported

## Video decoder

System decoding : MPEG 2 ISO/IEC 13818  
(transport stream)  
Profile and level : MPEG 2 MP@ML (4:2:2)  
Data rate : 1~ 15 Mb/s  
Video formats : 4:3 (normal) & 16:9 (widescreen)  
Picture resolution : 720(H) x 576(V) x 50 fields/sec

## Audio Decoder

System decoding : MPEG 1 ISO/IEC 11172~3 layer I & II  
and Dolby AC3  
Audio mode : single channel, dual channel, stereo,  
joint stereo  
Sampling frequency : 32,44.1,48, 96 KHz

**Note :** The specification of the STB may be changed without notice in advance.

## RF modulator

Modulator output : CH 21~69 (preset to CH 21)  
Video type : PAL BG, I, K(preset to PAL BG)  
UHF output level : 70 $\pm$ 5 dB $\mu$ V  
Output connector : IEC male  
Ant. O/P connector : IEC female  
Tuning method : PLL frequency synthesizer

## A/V output

TV SCART : VIDEO (CVBS, RGB), AUDIO R&L  
VCR SCART : VIDEO (CVBS, RGB), AUDIO R&L  
RCA JACK : VIDEO (CVBS), AUDIO R&L  
SPDIF : Digital Audio Output  
S-VHS : YC<sub>P-P</sub> 1V( $\pm$ 10%)

## Serial data interface

Standard : RS232C, Max. 115.2 Kbps  
Connector type : 9 pin D-type female

## Common Interface

Module Type : PCMCIA TYPE II x 2  
Available CAM : VIACCESS, IRDETO, NAGRAVISION,  
CRYPTOWORKS, CONAX, SECA, Etc.

## Hard Disk Driver

Type : Local(IDE) Hard Disk  
Connector type : 40-Pin Male  
Standard : ATA/ATAPI-5  
Model name : SAMSUNG ELECTRONICS  
SV4002H  
Storage Size : 40GB

## Physical Specification

Size (W x H x D) : 367mm x 62mm x 268mm  
Weight(Net) : 3.4 kg  
Operating Temperature : 5 °C to +35 °C

## Etc

Accessories : RCU, User's Manual, 2Batteries(AAA)