

# Contents

English

<b>1. Introduction .....</b>	<b>1</b>
1.1 Overview	
1.2 Main Features	
<b>2. Safety/Precautions .....</b>	<b>3</b>
2.1 Safety	
2.2 Precautions	
2.3 Positioning	
<b>3. Points to Check before Use .....</b>	<b>5</b>
3.1 Accessories	
<b>4. Controls/Functions .....</b>	<b>6</b>
4.1 Front Panel	
4.2 Rear Panel	
4.3 Remote controller	
4.4 Front Display	
<b>5. How to Connect .....</b>	<b>11</b>
<b>6. Operation .....</b>	<b>12</b>
6.1 Getting Started	
6.2 System Setting	
6.3 Channels	
6.4 Electronic Program Guide	
6.5 Games	
6.6 Storage	
6.7 System Information	
6.8 DVR	
<b>7. Troubleshooting .....</b>	<b>46</b>
<b>8. Specifications .....</b>	<b>47</b>

# Introduction

## 1.1 Overview

This receiver is designed for the reception of free to air channels and is equipped with a hard drive memory unit to allow program and content recording.

To ensure the correct operation of this product the user manual must be read by any person that is installing, connecting, operation or cleaning the unit.

**\* Note: All products that are marked either directly or labeled on the packaging with the following icon:**



Cannot be disposed of through the normal household waste channels and must be disposed of through specialized collection centers that recycle electric and electronic devices.

By disposing of such products as required by law, you are contributing to the protection of the environment.

Incorrect disposal can be hazardous to human health and the environment.

## 1.2 Main Features

- ▶ Digital Video Recorder with Twin Tuner
- ▶ Built in 500GB Hard Drive
- ▶ Time Shift, Record & Playback (Max. 3 channels recording simultaneously)
- ▶ 2 X USB 2.0 Host for MP3 Playback, JPEG Viewing & Firmware Update
- ▶ Ethernet Port
- ▶ DVB-T, MPEG-2/MPEG-4 Compliant
- ▶ 1080i / 720p / 576p / 576i Video Resolution
- ▶ HDMI Output
- ▶ Component Video (Y, Pb, Pr) Outputs
- ▶ Auto & Manual Channel Search
- ▶ Dolby Digital Optical Output
- ▶ Channel Sorting by Alphabet
- ▶ 16 Favorite Channel Groups
- ▶ Selection of 12 languages
- ▶ Multi Picture Display and Zoom
- ▶ 16:9 Full Screen, 4:3 Letterbox & 4:3 Full Screen
- ▶ Electronic Program Guide
- ▶ Teletext/Subtitle
- ▶ Auto Voltage (AC 100 - 250V) SMPS
- ▶ Support MEPS (Minimum efficiency performance standard)
- ▶  **DOLBY** DIGITAL PLUS Manufactured under license from Dolby Laboratories. "Dolby" and the double-D Symbol are trademarks of Dolby Laboratories.
- ▶ Compatible with Ictv Electronic Program Guide

# Safety Precautions

## 2.1 Safety

Please thoroughly read the following safety precautions before operating this receiver. You are required to read all notes, instructions and warnings contained in this User Manual.

## 2.2 Safety Precautions

- ▶ Only connect the receiver to a properly installed 100-240V, 50-60 Hz mains socket.
- ▶ During electrical storms unplug the receiver from the mains.
- ▶ To avoid any risk of fire and electric shock, do not expose the receiver to any water. If objects or liquids enter the receiver, immediately unplug power from the mains. Contact a qualified service technician before using the receiver again, or there may be a risk of electric shock.
- ▶ Do not open the cover as there is a risk of electric shock.
- ▶ When the receiver is not in use for extended periods, disconnect the plug from the mains.
- ▶ Never use the receiver with a damaged mains cable as there is a risk of electric shock.
- ▶ Should the mains cable be damaged, refer to a qualified service technician or contact an authorized Strong technician to arrange repair or replacement before using the receiver again.
- ▶ Do not allow children to use the receiver without supervision.
- ▶ Always refer maintenance to a qualified service technician or contact Strong for an authorized representative.

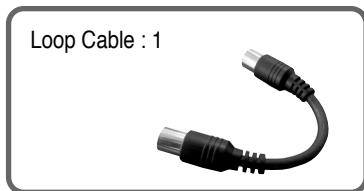
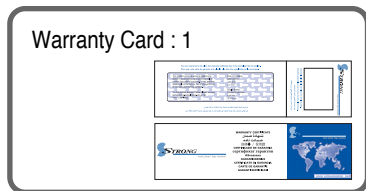
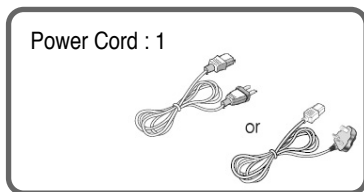
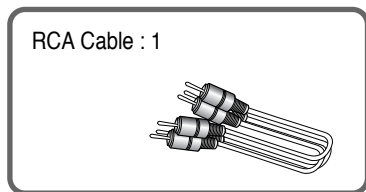
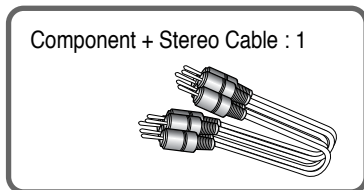
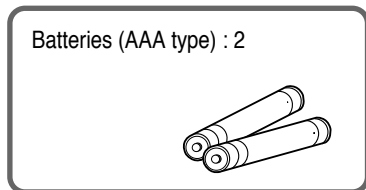
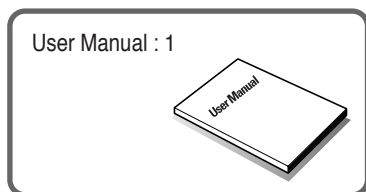
## 2.3 Positioning

- ▶ Ensure the receiver is placed on a stable, even surface.
- ▶ Do not place heavy objects on top of the receiver.
- ▶ Install the receiver in a well ventilated location and avoid direct sunlight.
- ▶ Avoid dusty locations.
- ▶ Never cover the ventilation holes in the cover of the receiver.
- ▶ Humidity can occur inside the receiver when moving from a cold to a warm place. In this case, wait approximately one hour before operating the unit.

# Points to Check before Use

## 3.1 Accessories

Unpack the unit and ensure that all of the following items are included in the pack.



► If any of the above-listed accessories is missing, contact your sales representative.

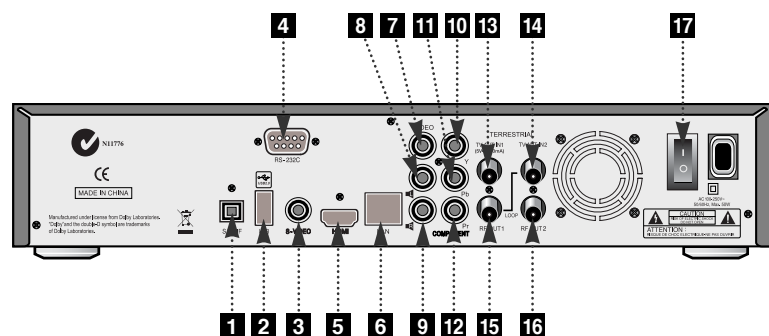
# Controls/Functions

## 4.1 Front Panel



- 1 Power** : Switches the receiver between "Standby" and "Power ON"
- 2 Menu** : To enter or exit the main menu.
- 3 OK** : To display the channel list or select and confirm an item in the menu mode.
- 4 - 5 VOL (◀/▶)** : To adjust the volume.
- 6 - 7 CH (▼/▲)** : To change channels or position the cursor on the application screen
- 8 Passive Standby / Power on indications Lamp** : Flashes red light in "Passive Standby" mode and shows no light in "Power ON" mode.
- 9 USB** : To connect a USB device (ex. Memory stick or external hard drive)

## 4.2 Rear Panel



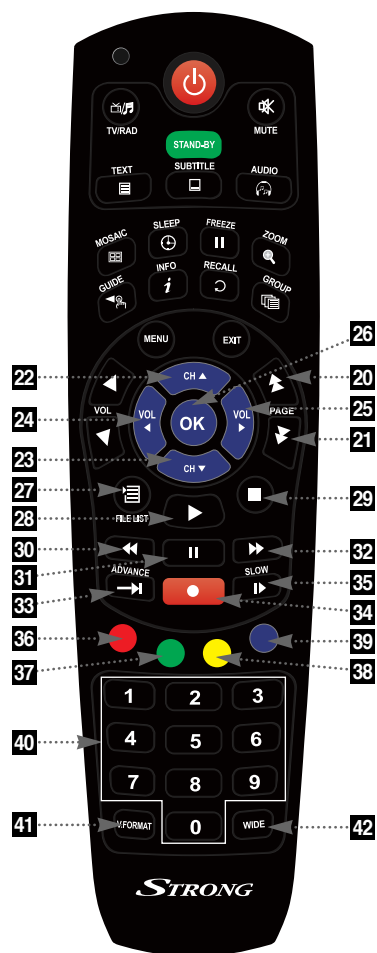
No.	Name	Connector	Function
1	S/PDIF	Fiber Optic	Digital audio output (Optical)
2	USB	USB A-type	USB 2.0
3	S-VIDEO	MINI-DIN	S-VHS Output
4	RS-232C	DB-9	Low speed serial port
5	HDMI	HDMI	Digital Video/Audio Output
6	LAN	RJ-45	10/100Mbps Ethernet
7	VIDEO	RCA cinch	Composite video output
8	AUDIO	L RCA cinch	Left audio output
9	AUDIO	R RCA cinch	Right audio output
10	Y	RCA cinch	Component video output(Y)
11	Pb	RCA cinch	Component video output(Pb)
12	Pr	RCA cinch	Component video output(Pr)
13	ANT IN1	IEC 169-2 FEMALE	Input from terrestrial antenna
14	ANT IN2	IEC 169-2 FEMALE	Input from terrestrial antenna
15	ANT OUT1	IEC 169-2 MALE	Loop-through output from digital tuner and Output to TV
16	ANT OUT2	IEC 169-2 MALE	Loop-through output from digital tuner and Output to TV
17	SWITCH		Power on/off switch

## 4.3 Remote controller



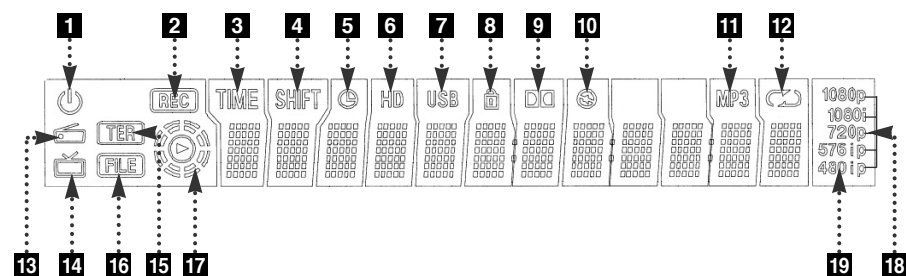
- 1 POWER** : Turns the unit on and off
- 2 STAND BY** : Places the receiver in standby mode
- 3 TV/RADIO** : Switches between TV and Radio functions
- 4 MUTE** : Turns the sound on and off
- 5 TEXT** : Shows Teletext content if available
- 6 SUBTITLE** : To turn the closed captions on and off
- 7 AUDIO** : To show the Multi-language audio track, stereo/mono mode and subtitle information
- 8 MOSAIC** : To display multiple pictures on screen
- 9 SLEEP** : To turn the unit off after a pre-set time
- 10 FREEZE** : Press once to pause live TV. Press again to resume play
- 11 ZOOM** : Activates the zoom function
- 12 GUIDE** : Shows the TV/Radio program guide
- 13 INFO** : Shows information about the selected program. Press twice for additional detail
- 14 RECALL** : To move to the previous channel
- 15 GROUP** : To select the channel favorite groups
- 16 MENU** : To enter or exit the main menu
- 17 EXIT** : To exit the current menu and move to the previous menu
- 18 - 19 Vol Up & Down** : To change volume setting

## 4.3 Remote controller



- 20 - 21 Double arrow Up/Down** : To move to the next or previous page when available
- 22 - 23 Up & Down** : To change channels and move the cursor up and down in menu mode
- 24 - 25 Left & Right** : To change the volume level. Also modifies a setting in menu mode
- 26 OK** : To show the channel list or to select or confirm an item in menu mode
- 27 FILELIST** : Displays the file list
- 28 PLAY** : Press to play content
- 29 STOP** : Press to stop playback
- 30 RWD** : Playback in rewind mode
- 31 PAUSE** : Pauses playback and begins timeshift
- 32 FWD** : Starts playback
- 33 ADVANCE** : Go to the live channel
- 34 REC** : To start recording
- 35 SLOW** : To activate playback in slow motion
- 36 - 39 Color Key** : For selecting View list, Select Disc and Rename
- 40 Numeric Keys (0-9)** : To enter numerical setting such as channel numbers
- 41 V.FORMAT** : To change video output resolution
- 42 Wide** : To select an aspect ratio with Pan Scan or Letterbox (4:3) (Full screen or Pillar box)

## 4.4 Front Display



1		Indicates Power (On/Off) mode
2		Lights when the current channel is recording
3		Lights when Time Shift is enabled
4		Lights when Time Shift is enabled
5		Lights when the Timer is set
6		Lights when a High Definition signal is received
7		Lights when a USB device is connected
8		Indicates the current channel is set in Lock mode
9		Lights when the current channel is Dolby audio format
10		Lights when the current sound is set to Off
11		Lights when Mp3 player is enabled
12		Lights when an Mp3 player is set in loop mode
13		Lights when the current channel is in Radio mode
14		Lights when the current channel is in TV mode
15		Lights when the signal is being received via the antenna
16		Indicates the current playback mode in the file list
17		Lights when a recorded file is being played
18		Indicates the resolution of video output
19		Indicates Progressive or Interlaced scanning mode

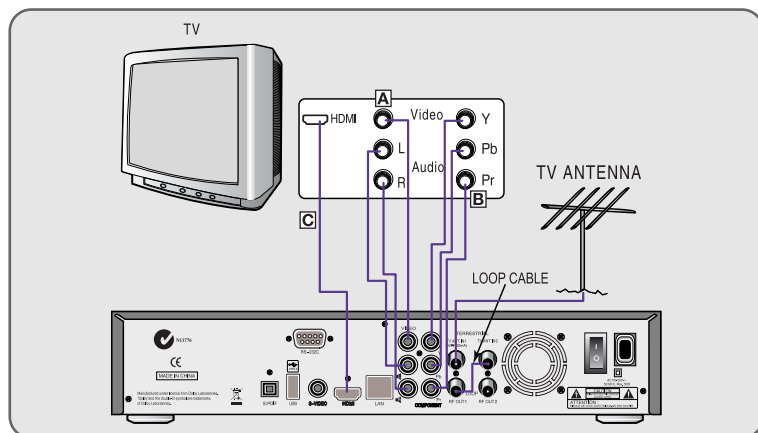
# How to Connect

- 1** Connect the antenna lead coming from the wall plate to the input marked "Tuner 1"
- 2** Connect the Loop Cable provided to the input marked Tuner 1 RF then to the Tuner 2 input as shown in the diagram below
- 3** There are a number of methods to connect your receiver to your television
  - A.** Using the Composite cable provided ( red, white and yellow leads)
 

For video, connect the yellow lead to the yellow socket on back of the receiver and to the corresponding plug on the back of the TV.

For Right Audio, connect the red lead to the red socket on the back of the receiver and to the corresponding socket on the back of the TV.

For Left Audio, connect the white lead to the white socket on the back of the receiver and to the corresponding socket on the back of the TV.
  - B.** Using the Component cable provided ( green, blue and red leads) paying attention to the color coding connect the three color coded leads to the matching sockets in the back of the receiver and the TV. You will also need a connection for Right and Left audio via the audio socket. This may be achieved using the Composite cable supplied and connecting the red and white leads as described in Step A above.
  - C.** If your TV has a HDMI input, you can use a HDMI cable ( sold separately) from the back of the receiver to the TV. A HDMI cable supplies both video and audio signals through a single cable so no other leads are required. Please ensure your TV is set to the HDMI input mode to detect the receiver.



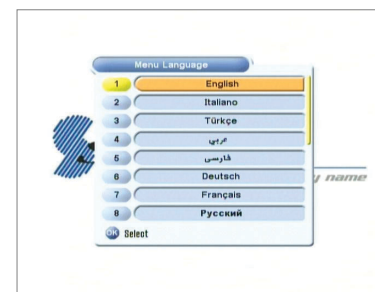
# Operation

## 6.1 Getting Started

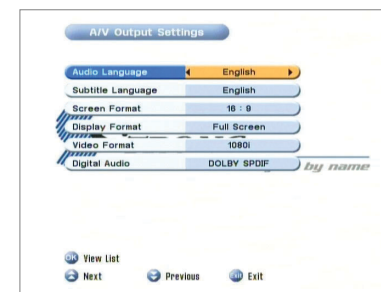
After your receiver is powered on, proceed with installation as follows :

### 1) Installation Wizard

- 1** Plug in the receiver and position the power switch to "on"
- 2** Turn on your TV
- 3** A pop-up menu will appear for language selection <Figure 6.1.1> Select the desired language and press **OK** to proceed
- 4** The AV output setting menu will now appear <Figure 6.1.2>. Use the scroll keys **▲** / **▼** to select the desired settings and press **OK** to proceed (see also Page 21)

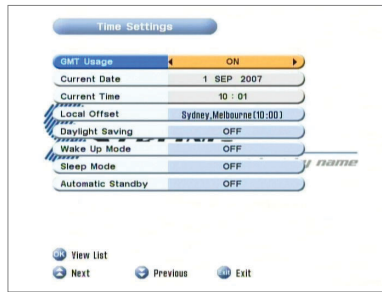


<Figure 6.1.1>



<Figure 6.1.2>

- 5** The time setting menu will now be displayed <Figure 6.1.3>. Once again use the scroll keys to select the desired time and confirm by pressing **OK** (see also Page 20)
- 6** The Auto Scan menu will now appear <Figure 6.1.4> In this mode the receiver will scan for all available channels and save them in the memory.

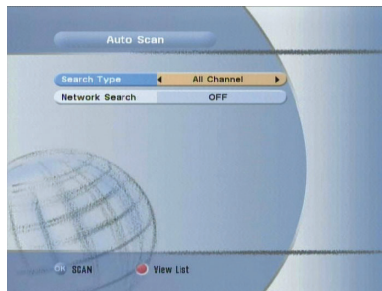


<Figure 6.1.3>

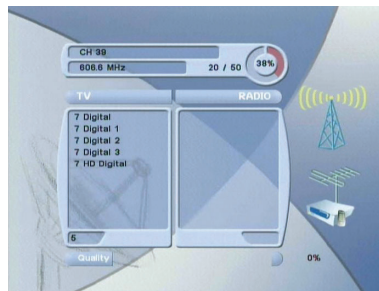


<Figure 6.1.4>

7 With the "All Channels" icon highlighted <Figure 6.1.5> press the **OK** button to start the scan. Scanned channels will be shown on screen <Figure 6.1.6>



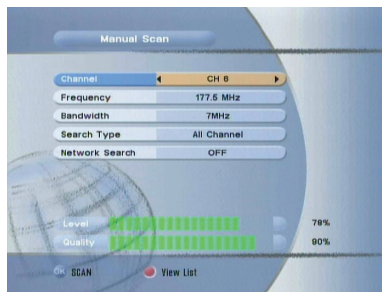
<Figure 6.1.5>



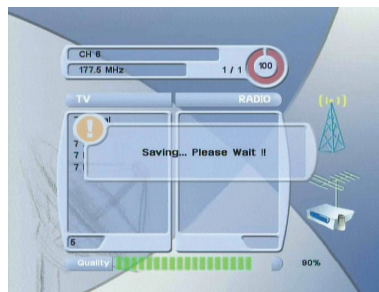
<Figure 6.1.6>

## 2) Manual Scanning

To manually scan a channel select the channel number using the **VOL** and **VOL** keys on the remote control <Figure 6.1.7> and press **OK**.



<Figure 6.1.7>

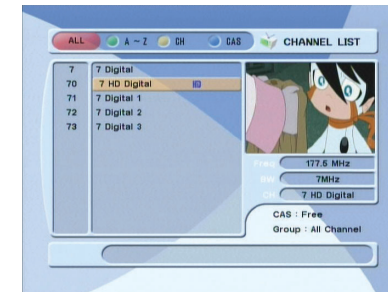


<Figure 6.1.8>

## 3) Channel Selection

You can use the **CH** and **CH** keys to navigate between channels to select desired channels.

- ▶ If you know the channel number you can enter it using the NUMERIC buttons on the remote control and wait 2 seconds for the change.
- ▶ On the right hand side of the screen detailed information about the selected channel will be displayed <Figure 6.1.9>



<Figure 6.1.9>

▶ You can use the following buttons to navigate between channels

- **CH** and **CH** : Moves one channel up or down
- **VOL** and **VOL** : Moves one page up or down
- **RED** : Shows all channels in the current group
- **Green** : Shows all channels alphabetically
- **Yellow** : Shows all channels by transponder
- **Blue** : Shows all channels by CAS.

▶ Press **OK** when the selection bar is positioned on the desired channel.



## 4) Other Functions of the Remote Control

## ▶ Volume Control

- 1 Press **Vol+** or **Vol-** to adjust the volume while watching a program
- 2 Pressing the Mute button will remove the sound and the mute icon will be displayed. Pressing the Mute button again will restore the sound.

## ▶ Channel Information

- 1 Pressing the INFO button will briefly display the channel information
- 2 Pressing the INFO button a second time will display more detailed program information.

## ▶ TV/RADIO switching

Press this button to change from a TV to a Radio channel. Pressing the button again will return the unit to the TV channel

## ▶ RECALL

Pressing this button returns the unit to the previously viewed channel

## ▶ Audio

Use this button to adjust the subtitles or audio status of the current channel

- **Audio Mode** : Select from Stereo → Mono Left → Mono Right
- **Audio Track** : Select between tracks available in this program
- **Audio Level** : Use to select High → Medium → Low

\* **Note** : *Subtitle and audio settings are only available when the selected channel supports these functions.*

## ▶ TEXT

Teletext is a text data service available through your service provider.

## ▶ FREEZE

Press this button to freeze video. Pressing the button again will restore the video.

## ▶ GROUP

This button is used to view the list of favorite channel groups. Only registered groups are displayed.

## ▶ MOSAIC

Pressing this button will display a menu to select a multiple picture display. You can choose from 1x2, 2x2, 2x3 or 3x3. <Figure 6.1.10>



&lt;Figure 6.1.10&gt;

## ▶ ZOOM

By pressing the **Zoom** button you can zoom in video.

- 1 By pressing the PAUSE button and **Zoom** you can zoom in on sections of video on Freeze <Figure 6.1.11>
- 2 While watching a program press **Zoom** to zoom in on sections of a video <Figure 6.1.12>
- 3 To cancel the freeze status release it by pressing the ZOOM button continuously.




&lt;Figure 6.1.11&gt;




&lt;Figure 6.1.12&gt;

## 6.1 Getting Started

### ► SUBTITLE

By pressing  you can select the subtitle language of the current channel <Figure 6.1.13>

### ► SLEEP

You can set your receiver to turn off after a period of time. Available timer selections are 10,20,30,60,100 and 120 minutes. To activate press  and set the timer. <Figure 6.1.14>

- To cancel the sleep timer press  until the minutes are set as "0 min"




<Figure 6.1.13>



<Figure 6.1.14>

### ► V.FORMAT <Figure 6.1.15>

You may select the video resolution by pressing . Available selections are 1080i → 720p → 576p → 576i

### ► WIDE <Figure 6.1.16>

Pressing  changes the aspect ratio. Available ratios are:

- 4.3 Pan-Scan or Letter-Box
- 16.9 Full-Screen or Pillar-Box




<Figure 6.1.15>



<Figure 6.1.16>




## 6.2 System Setting

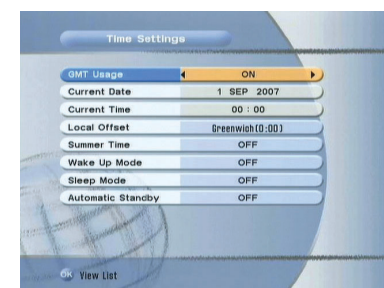
These can be accessed by pressing the Menu button and then scrolling to the "System" section and pressing .

### 1) Time Settings

The sub menu allows you to set your local time, wake up timer, wake up channel and sleep time. <Figure 6.2.1>

Use the scroll buttons to select the following options

- **GMT Usage** : Set this ON for the local time to be determined by adjusting the time difference with GMT.
  - **Current Date** : If GMT Usage is OFF you can change the date by pressing .
  - **Current Time** : If GMT Usage is OFF you can change the time using the NUMERIC buttons
  - **Summer Time** : Select the time during which summer time is applied
  - **Local Offset** : If GMT Usage is ON, local time is GMT + Local Offset
  - **Wake Up Mode** : Selects wake up frequency (Off/Once/Daily/Mon - Fri)
  - **Wake Up Time** : Set the wake up time using the **NUMERIC** buttons.
  - **Wake Up Channel** : Press  to set the wake up channel.
  - **Sleep Mode** : Use to select sleep frequency ( Off/Once/Daily/Mon-Fri)
  - **Sleep Time** : Set the sleep time using the NUMERIC buttons
  - **Automatic Standby** : Selects auto standby time (OFF/After 1~8Hour)
- After making your selection press  to confirm



<Figure 6.2.1>

### 2) A/V Output Settings

This menu lets you specify the audio and video inputs <Figure 6.2.2>  
Use the scroll buttons

- **Audio Language** : set the audio language
- **Subtitle Language** : Select the subtitle language
- **Screen Format** : Select the screen format (16.9/ 4.3)
- **Display Format** : Select the aspect ratio
- **Video Format** : Select the video format from 1080i, 720p, 576p or 576i
- **Digital Audio** : Chooses the audio output type

After making your selection press the **OK** to confirm

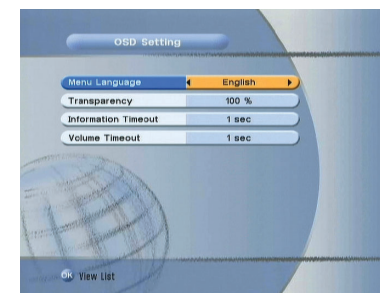


<Figure 6.2.2>

### 3) On Screen Display Settings

Using this menu, you can select the menu language, the transparency of the on screen display and the time that the display and volume bars are shown on the screen. <Figure 6.2.3>

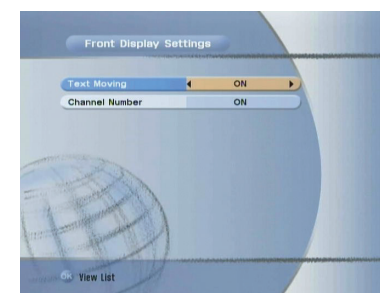
Use the scroll buttons to highlight and adjust your selections and press **OK** to confirm.



<Figure 6.2.3>

### 4) Front Display Setting

This function allows you to select the front display and choose from moving text and channel number display. Use the scroll button to highlight and adjust your selection and press **OK** to confirm <Figure 6.2.4>



<Figure 6.2.4>

## 5) Security Settings

To prevent unauthorized access of your receiver, you can set the PIN control password.

**(Note that the factory set default password is : 0000. PIN and password are the same)**

<Figure 6.2.5>

By setting any of the following functions to **OK** in this menu, the PIN will be required to access them;

- **Receiver Lock, Install Lock, Channel Lock, Lock Channel Confirm**

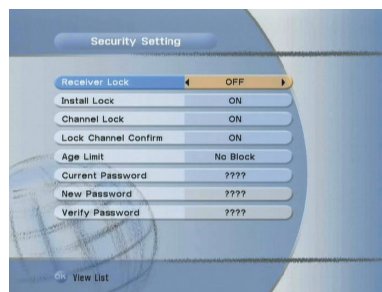
► **Age Limit (Parental Lock)**

Under this menu you may select a Rating of programs you choose to block.

All available ratings are listed in the menu and when the program information regarding the rating available from the broadcaster exceeds the selection, a PIN number is required to access the program.

Use the scroll buttons to make your selection and press **OK** to confirm.

This section also contains options to change and enter new passwords.

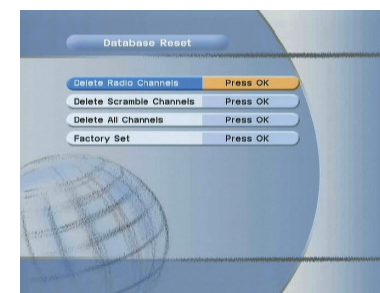


<Figure 6.2.5>

## 6) Database Reset &lt;Figure 6.2.6&gt;

This section allows you to reset the receiver to the factory settings.

- **Delete Radio Channels** : Erase all radio channels in the database.
- **Delete Scramble Channels** : Erase all scramble channels in the database.
- **Delete All Channels** : Erase all channels.
- **Factory Set** : Erase all channels and restore the factory default settings.

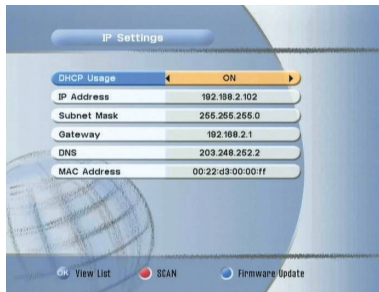


<Figure 6.2.6>

### 7) IP Setting

If the Network supports DHCP, IP settings can be allocated automatically. If the Network does not support DHCP, the Addresses must enter manually (Static IP). <Figure 6.2.7>

- **DHCP Usage** : On/Off to receive IP settings automatically
- **IP Address** : Here enter the IP address
- **Subnet Mask** : Here enter Subnet Mask Number from your Network
- **Gateway** : Here enter IP address of Gateway (e.g. router)
- **DNS** : Here Enter IP address of main DNS Server
- **Mac Address** : Mac Address display

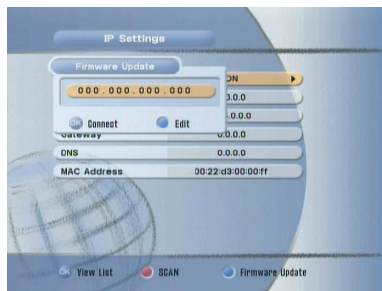


<Figure 6.2.7>

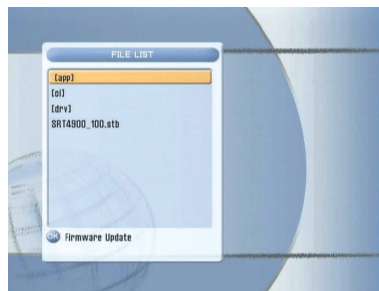
- **Firmware update** : Support download from a LAN.

- 1 **BLUE** button, appear input target IP address.
- 2 **OK** button to connect after input a target IP.
- 3 Choose a update software and **OK** button for downloading.

\* **Note** : *Have to run PC tool before connect PC.*



<Figure 6.2.8>

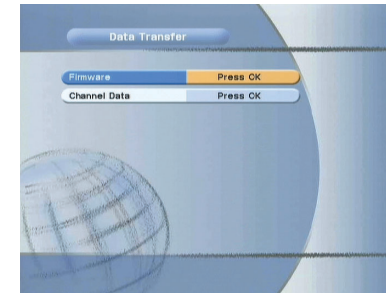


<Figure 6.2.9>

### 8) Data Transfer

Used to transfer data from another receiver. Select the appropriate caption and press **OK** to confirm. <Figure 6.2.10>

- **Firmware** : Transfer the firmware of a receiver to another receiver.
- **Channel Data** : Transfer the channel data of a receiver to another receiver.

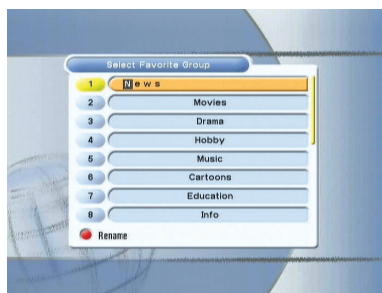


<Figure 6.2.10>

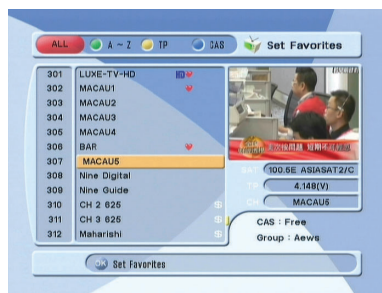
### 1) Setting Favorite Channels

This section allows you to select up to 16 groups of favorite channels in either TV or Radio.

- 1 Press **OK** on "Set Favorites" and the group lists will be displayed <Figure 6.3.1>
- 2 Press **CH▲** / **CH▼** to choose a group and a new menu will appear <Figure 6.3.2>  
To change the name of the group press the RED button
- 3 Press **OK** to add or remove a channel from the list
- 4 Press EXIT to return to the previous menu.



<Figure 6.3.1>

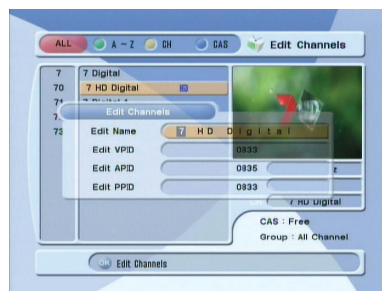


<Figure 6.3.2>

### 2) Edit Channels

This section lets you rename and edit channels. You can select from Radio or TV by pressing the TV/RADIO button or a channel by pressing the GROUP button.

- 1 Press **OK** on "Edit Channels" and a new menu will appear <Figure 6.3.3>
- 2 Press **OK** on the desired channel
- 3 Press **OK** on "Edit Name" to rename the channel using the displayed keypad

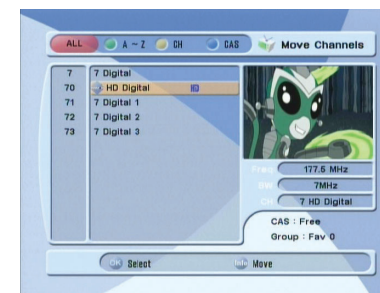


<Figure 6.3.3>

### 3) Move Channels

By navigating through this section you can change the channel sequence.

- 1 Choose the channel list by pressing the GROUP button, then use the cursor keys to select the desired options. <Figure 6.3.4>
- 2 Press the EXIT button to return to the previous menu.

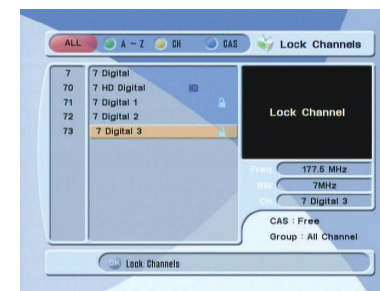


<Figure 6.3.4>

### 4) Lock Channels

This feature allows you to lock a specific channel so it will require a password to access it.

- 1 Press **OK** on the "Lock Channels" and follow the on-screen prompts to set the function. <Figure 6.3.5>
- 2 Press EXIT to return to the previous menu.

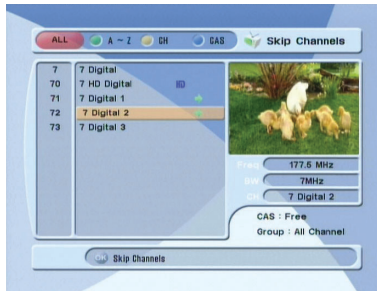


<Figure 6.3.5>

### 5) Skip Channels

This feature skips a set channel when using the **CH▲** and **CH▼** buttons to navigate channels.

- 1 Press **OK** on the "Skip Channels" and follow the on-screen prompts to activate the feature on the selected channels. <Figure 6.3.6>
- 2 Press EXIT to return to the previous menu.



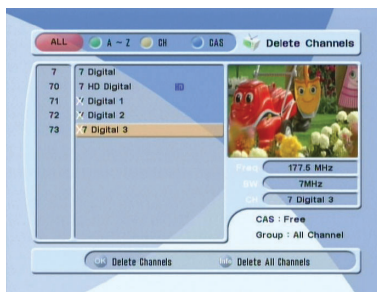
<Figure 6.3.6>

### 6) Delete Channels

This function allows you to delete a channel selection.

**\* NOTE : Deleting a channel means you will not be able to access it until you rescan.**

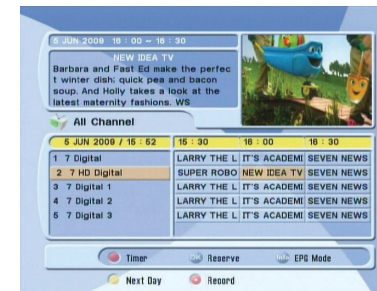
- 1 Press the **OK** on "Delete Channel" and follow the screen prompts to activate this feature. <Figure 6.3.7>
- 2 Press the **INFO** button to delete all channels in the current list; you will be asked to enter your password.
- 3 Press EXIT to return to the previous menu.



<Figure 6.3.7>

### 1) EPG

- 1 Press the **GUIDE** button to display the guide menu. <Figure 6.4.1>
- 2 Press **VOL▲** / **VOL▼** to see the previous or next guide
- 3 Press **CH▲** / **CH▼** / **▲** / **▼** to select another channel. <Figure 6.4.1>
- 4 Press **OK** to watch the selected channel and access its EPG data.
- 5 Select TV or Radio programs by pressing TV/RADIO
- 6 Choose a channel list by pressing GROUP
- 7 Access the timer mode by pressing the RED button <Figure 6.4.2>



<Figure 6.4.1>

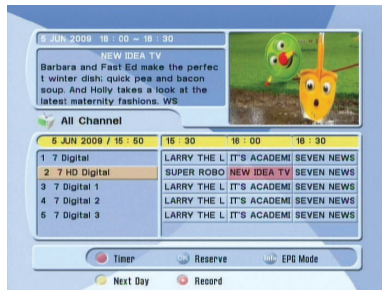


<Figure 6.4.2>

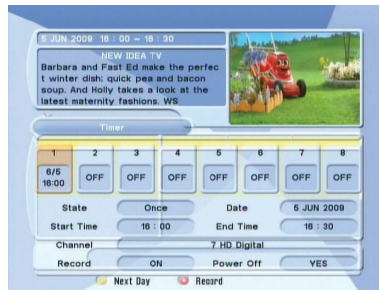
### 2) Timer

The feature allows you to set the on/off timer of your receiver.

- 1 Press **RED** to display the menu <Figure 6.4.2>
  - 2 Press **OK** to select the timer parameters
  - 3 Press **CH▲** / **CH▼** to change:
    - **Timer No** : choose the desired timer (1-8)
    - **State** : Select timer frequency (off/daily/Mon-Fri/Weekly)
    - **Date** : Press **OK** to display a calendar and select a date
    - **Start Time** : using the NUMERIC buttons input the required start time
    - **End Time** : Using the Numeric buttons input the end time
    - **Channel** : Press **OK** to display the channel list and select a channel
    - **Record** : Set the record mode (ON/OFF)
    - **Power Off** : Select operation of Power Off after finishing recording.
- If you want to record a program from the right side screen menu you can select it using **▶**. The selected program will be reserved and the event color text will change to red. <Figure 6.4.3>
- You can also see the change in the timer menu <Figure 6.4.4>



<Figure 6.4.3>

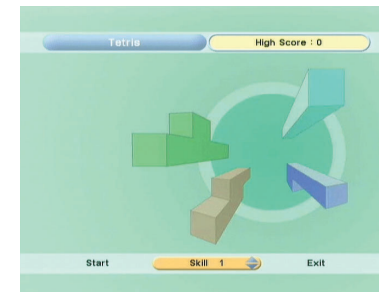


<Figure 6.4.4>

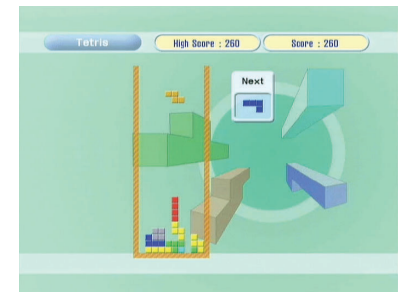
Your receiver contains 4 built-in games programs.

### 1) Tetris

- 1 Press **OK** to activate the menu <Figure 6.5.1>
- 2 Use **CH▲** / **CH▼** to select a skill level
- 3 Press **OK** to start the game <Figure 6.5.2> or press EXIT to return to the previous menu.
- 4 Use the cursor keys to play the game.
- 5 You can see the next block in the top-right small window.
- 6 Press the **EXIT** to quit the game.



<Figure 6.5.1>



<Figure 6.5.2>



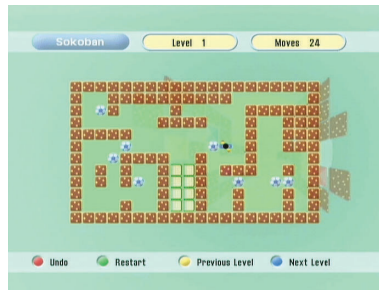
## 2) Sokoban

In this game you are required to push the balls into their required position. The ball can only be pushed, never pulled and you can only push one ball at a time.

- 1 Press **OK** on Sokoban to display the menu <Figure 6.5.3>
- 2 Use **CH ▲** and **CH ▼** to select a skill level.
- 3 Press **OK** to start the game <Figure 6.5.4> or EXIT to return to the previous menu.
- 4 Use the cursor keys to move.
- 5 Press RED to undo the previous move. You can only undo one move
- 6 Press the GREEN to restart the game
- 7 Press the YELLOW/BLUE buttons to jump to the previous/next level.
- 8 Press EXIT to quit the game



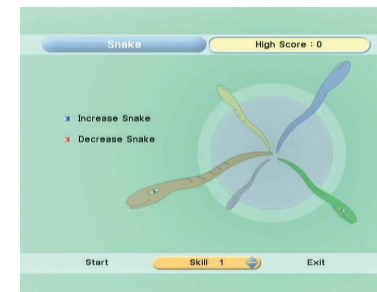
<Figure 6.5.3>



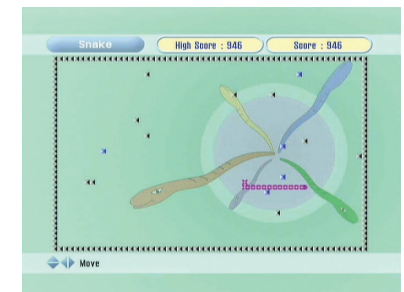
<Figure 6.5.4>

## 3) Snake

- 1 Press **OK** on "Snake" to display the menu <Figure 6.5.5>
- 2 Use **CH ▲** and **CH ▼** to select a skill level
- 3 Press **OK** to start the game <Figure 6.5.6> or EXIT to return to the previous menu
- 4 Use the cursor buttons to move.
- 5 Pass through the BLUE icon to increase your score and the length of the snake
- 6 Pass through the RED icon to decrease the length
- 7 Avoid the BLACK icons . If you hit this icon the game ends.
- 8 Press EXIT to quit the game.



<Figure 6.5.5>

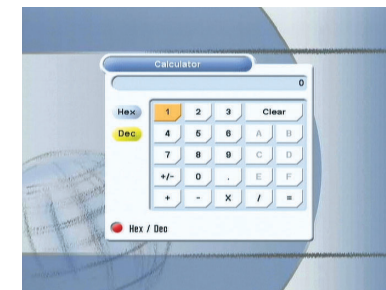


<Figure 6.5.6>

## 4) Calculator

This feature allows you to use a calculator <Figure 6.5.7>

- Use the Numerical and the **VOL ▲** / **VOL ▼** / **OK** buttons on the remote control.



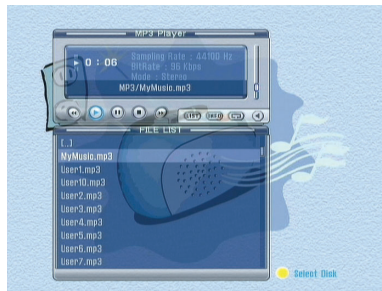
<Figure 6.5.7>

## 6.6 Storage

With this feature you can play various Mp3 files, view JPG files or download new software using a USB flash drive

### 1) MP3 menu

- 1 Select the MP3 file you want to play using the **CH ▲** / **CH ▼**, **OK** in the file list.  
<Figure 6.6.1>
- 2 Press the EXIT button to hide the file list. Select and option using **VOL ▲** / **VOL ▼**, **OK**. <Figure 6.6.2>
- 3 Adjust the volume using **VOL ▲** / **VOL ▼**.
- 4 Press **OK** on **LIST** to display the MP3 file list.
- 5 Press **OK** on **INFO** to display information about the selected MP3 file.
  - **FILELIST** : Displays/hides the file list
  - **INFO** : Shows information about the selected file
  - **YELLOW** : Selects the hard disk or usb device with USN hub



<Figure 6.6.1>

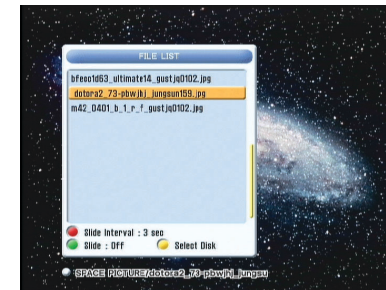


<Figure 6.6.2>

## 6.6 Storage

### 2) JPG menu

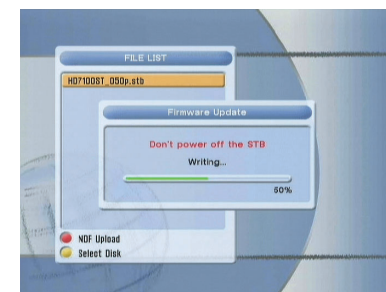
- 1 Press **CH ▲** / **CH ▼** to select a picture then press **OK** to display the selected picture  
<Figure 6.6.3>
  - **RED** : Sets the time interval between slides.
  - **GREEN** : Selects slide show.
  - **YELLOW** : Select the hard disk volume or USB device.
  - **FILELIST** : Shows/Hides the JPEG file list.



<Figure 6.6.3>

### 3) Data Transfer menu

- 1 Select the software you want to download by using **CH ▲** / **CH ▼** in the menu  
<Figure 6.6.4>
- 2 Press **OK** to start the download.
  - \* **Warning : do not switch off your receiver before the download is complete.**

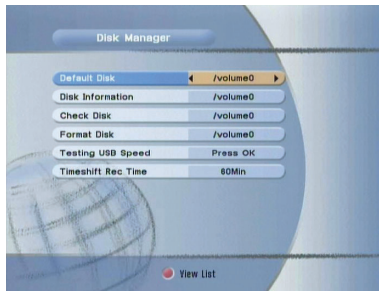


<Figure 6.6.4>

### 4) Disk Manager

Use the cursor keys to activate the desired functions from this menu.

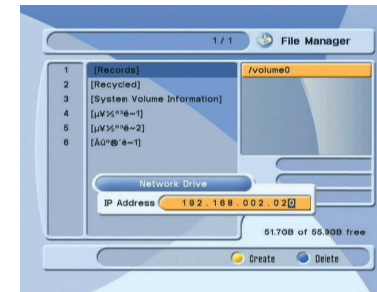
- **Default Disk** : Set the DVR disk.
- **Disk Information** : Choose the Hard disk volume or usb device with USB hub. You can view a information of usb devices (used size, total size, free size)
- **Chek Disk** : Choose the Hard disk volume or usb device with USB hub. You can check the usb devices.
- **Format Disk** : You can format the usb devices.
- \* **Warning** : All data will be lost to the disk.
- **Testing USB Speed** : Press **OK** to test usb speed for DVR.
- **Timeshift Rec Time** : Set the Timeshift Recording Time.(10Min/30Min/60Min)



<Figure 6.6.5>

### 5) File Manager

- 1 Press the **YELLOW** button to connect to your PC.
- 2 Press **OK** after the input of your IP address.
- 3 Press **OK** after selecting the target file.



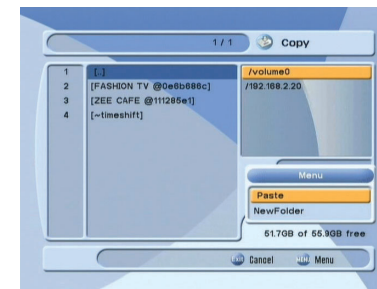
<Figure 6.6.6>



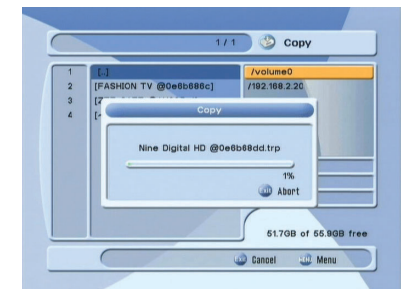
<Figure 6.6.7>

- \* **Note** : Follow these instructions prior to connecting your receiver to your PC
- A. Run the PC Tool program before connecting to your PC ( STB Daemon exec)
  - B. Select a sharing folder in your PC <Figure 6.6.10>
  - C. Press "OK" then select STB Daemon and the window will be hidden. You can still see the icon on the bottom right of the windows screen <Figure 6.6.11>
  - D. To quit the program, right click on the icon using your PC mouse, then click "EXIT" <Figure 6.6.12>

- 4 Press the right button and press **RED** to select files.
- 5 Press **OK** to select Move/Copy/New Folder/Delete/Rename after pressing the "Menu" button
- 6 If selecting Move or Copy press the button to move the target to paste.
- 7 Press **MENU** to paste to target
- 8 Select paste for copying or moving files.



<Figure 6.6.8>



<Figure 6.6.9>

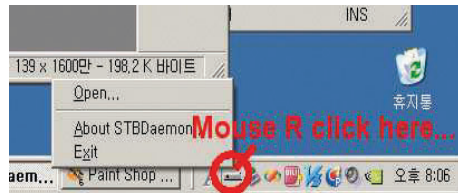
## 6.6 Storage



<Figure 6.6.10>



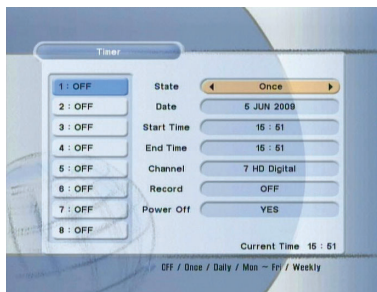
<Figure 6.6.11>



<Figure 6.6.12>

### 6) Timer Manager

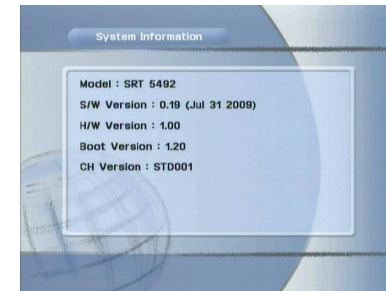
- 1 Press the **OK** after selecting the timer number <Figure 6.6.13>
  - 2 Press **CH ▲** / **CH ▼** to select timer parameters
  - 3 Press **CH ▲** / **CH ▼** to change parameters
- **Timer No** : choose the desired timer (1-8)
  - **State** : Select timer frequency ( off/daily/Mon-Fri/Weekly)
  - **Date** : Press **OK** to display a calendar and select a date
  - **Start Time** : Using the NUMERIC buttons input the required start time
  - **End Time** : Using the Numeric buttons input the end time
  - **Channel** : Press **OK** to display the channel list and select a channel
  - **Record** : Set the record mode (ON/OFF)
  - **Power Off** : Select operation of Power Off after finishing recording



<Figure 6.6.13>

## 6.7 System Information

Your receiver displays current information <Figure 6.7.1> regarding model name, software version and date of manufacture. This info is useful when downloading new software.









<Figure 6.7.1>

Your receiver is equipped with a 500GB Hard Disc for recording data and video content.

## 1) File List

### ► File Playback

- 1 Press  to display the file list then select the file to be played using the  / , .
  - 2 Press  in the left screen side to display detailed information about the selected file. <Figure 6.8.1>
- To use full screen, press  and a time bar will appear <Figure 6.8.2>




<Figure 6.8.1>







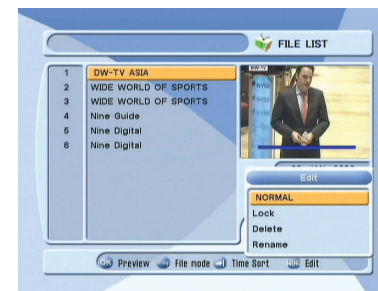
<Figure 6.8.2>

### ► Edit Menu

Press  to display the menu. Note: A password is required when accessing this menu. <Figure 6.8.3>

Select the item you wish to edit and set the desired parameters

- 1 Normal Mode : Press  on the file to see a preview
- 2 Lock Mode : Press  on the file you want to lock/unlock
- 3 Delete Mode : Press  to delete the selected file.
  - **GROUP** : Select between, File Mode ↔ Dir Mode
  - **ADVANCE** : Shows all sorted files. Select between, Sort by name ↔ Sort by time.
- 4 Rename Mode : Press  on a selected file to rename.




<Figure 6.8.3>



## 2) Trick Mode

The Trick Mode is available when playing recorded files.



### ▶ PLAY

This button will display a time- banner. To use the play list while playing the file press .


### ▶ PAUSE

This button will pause the file until pressing  or . <Figure 6.8.4>

### ▶ ADVANCE

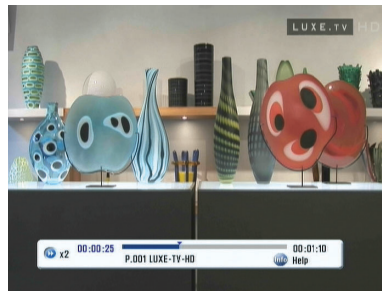
- When Time Shift mode is enabled press  to jump to a live program
- If the playback mode is enabled press  to stop the current file playing and jump to a live program.

### ▶ FF(Fast Forward)

- When playing a file you can adjust the speed by pressing  <Figure 6.8.5>




<Figure 6.8.4>



<Figure 6.8.5>

### ▶ RWD(Rewind)

When playing a file pressing  will adjust the rewind speed. <Figure 6.8.6>

### ▶ Slow(1/2x, 1/4x)

When playing a file press  to adjust the playing speed. <Figure 6.8.7>





<Figure 6.8.6>





<Figure 6.8.7>

### ▶ Jump

- You can select the desired control position by pressing  / .
- Pressing this key continuously will increase the position control.

### ▶ Skip

- You can skip forward 15 seconds by pressing the  and backwards 15 seconds using the .

### ► Bookmark

Use this feature to mark a specific place in a file <Figure 6.8.8>

- **RED** : Pressing this button and a red triangle will appear. To delete this bookmark, press the button once more and the red triangle will be removed.
- **GREEN** : Press this button and the current position will jump to the next bookmarked position and commence playback from this point.
- **YELLOW** : Press this button and the current position will jump to the Pre-bookmarked position and playback will commence from this point.

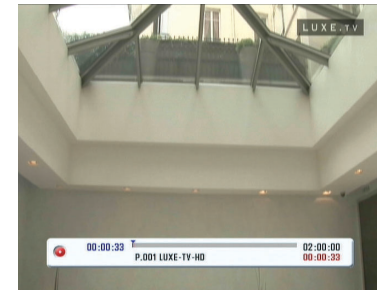
\* **Note** : The maximum number of bookmarks in a file is 20.



<Figure 6.8.8>

### 3) Instant Recording

- ① You can record a current channel by pressing . If you then press , a time-banner will be displayed.<Figure 6.8.9>
- ② Press once more to select an item while recording a current channel <Figure 6.8.10>
  - **Channel** : Shows the current channel
  - **Name** : Shows the current recording name
  - **Duration** : You can select the duration of the recording time using the / and the current recording time will appear
  - **Stop** : Press to stop recording.






<Figure 6.8.9>



<Figure 6.8.10>

\* **Note** : 1. Do not remove the USB device while recording a program.

#### 4) Recording Stop

- ❶ Press  on the remote to stop the recording and "Record Stop" will be displayed.
- ❷ Select the recording file using  / .
- ❸ Press EXIT to stop the selected recording.




<Figure 6.8.11>

#### 5) Timer Recording

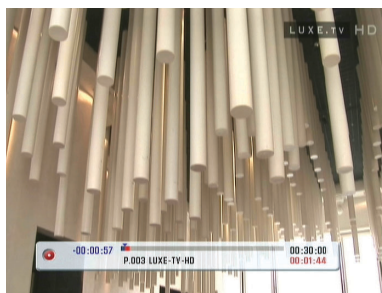
This feature is available when a USB device is connected. You may choose a channel to record using the EPG (see section 6.4)

#### 6) Time Shift

- ❶ To pause and resume live TV press PAUSE. The default time shift is 30 minutes <Fig 6.8.12>
- ❷ To resume live TV press PLAY <Fig 6.8.13>
- ❸ To jump to a live channel press 



<Figure 6.8.12>



<Figure 6.8.13>

## Troubleshooting

There may be various reasons for the abnormal operation of the unit. Therefore, if the unit does not work properly, check it according to the procedures shown in the table below:

Problem	Possible causes	Remedy
<b>The LED light on the front panel does not light.</b>	The AC power cord is disconnected.	Connect the power cord properly into the power socket.
<b>No Picture or sound.</b>	Wrong connection of the video/audio output to the TV input terminal.  Wrong connection of the terrestrial cable.  No signal or weak signal.  Wrong setting of channel information in the MENU screen.	Connect the two terminals correctly with RCA or RF cable(s), HDMI cable(s).  Connect the antenna cable correctly.  Adjust the direction of the antenna.  Check the cable connections  Type the setting values correctly.
<b>Black-and-white screen or V-Hold.</b>	Your TV mode (PAL/NTSC) is different from the terrestrial broadcasting mode.	Use a TV of the same mode.  Connect a NTSC/PAL converter between the receiver and the TV.
<b>The remote controller is not working.</b>	Batteries are exhausted.  Fluorescent light is interfering with the remote controller.  Remote controller is incorrectly aimed.	Change the batteries.  Switch off the light.  Aim the remote control at the receiver.
<b>Unit will not operate.</b>	No Power or Switched off.	Check mains supply and ensure that the unit is switched on both at the mains and at the power switch on the rear of the receiver.



# Specifications

<b>System capabilities</b>	Fully DVB compliant	
<b>TERRESTRIAL System capabilities</b>	Input connector	IEC 169-2, Female
<b>System capabilities</b>	Loop-through out	IEC 169-2, Male
<b>Tuner</b>	Frequency range	170 ~ 230 MHz, 470 ~ 862MHz
<b>&amp; Channel Decoder</b>	Input impedance	75 Ohms Nominal
	Signal level	7,8MHz(-78dBm~-25dBm) switchable by software
	IF Bandwidth	7,8MHz(-3dB) switchable by software
	Waveform	OFDM
	Carrier Mode	2k and 8k hierarchical/non-hierarchical
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
	Guard Interval	1/4, 1/8, 1/16, 1/32
<b>System resource</b>	Processor	32bit processor (266MHz)
	DDR SDRAM	64Mbyte X 2, 32Mbyte X 2
	FLASH	8Mbyte
	EEPROM	256Kbit
<b>Video decoder</b>	MPEG 2	MPEG-2, MPEG-4, H.264
	Data Rate	up to 15M bits/s
	Resolution	1920 X 1080i, 1280 X 720P, 720 X 576P/i
	Video format	PAL
	Aspec Ratio	4:3,16:9
<b>Teletext</b>	DVB compliant	
<b>MPEG Audio</b>	MPEG 1 layer I/II, MPEG 2 layer II, AC3 Dolby Digital	
	Type	Mono, Stereo, Joint Stereo
	Sampling rates	32, 44.1 and 48 KHz
<b>Serial data interface</b>	Connector	9pin D-sub male, Max 115K bps
<b>Remote control</b>	Code	NEC-IR
	Operating condition	up to 7 Meter
<b>USB</b>	USB Supply	DC 5V Max 500mA
<b>Terrestrial ant input</b>	Antenna Supply	DC 5V Max 100mA

<b>Power supply</b>	Power consumption	max 50W	
	Passive standby	<1W(Compliance with MEPS)	
	Supply voltage	100V ~ 250V	
	Supply frequency	50Hz ~ 60Hz	
<b>Rear Panel connectors</b>	Video	1 X RCA cinch	
	Audio L/R	2 X RCA cinch	
	Component(Y/Pb/Pr)	3 X RCA cinch	
	Serial data	9pin D-sub	
		IEC 169 - 24	
		IEC 169 - 24	
	Terrestrial ant input	IEC 169 - 2	
	Terrestrial ant output	IEC 169 - 2	
	S/PDIF	Fiber Optic	
	HDMI	Digital Video/Audio Output	
	USB	USB A-type	
	S-VIDEO	MINI-DIN	
LAN	RJ-45		

<b>Physical Specification</b>	Size (W X H X D)	335 X 58.5 X 247(mm)
	Weight (Net)	3 Kg



### Disposal of Old Electrical & Electronic Equipment(Applicable in the European Union and other European Countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.

For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



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