

# Medi@Link Black Panther

User Manual

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# 1. Introduce

Thank you for purchasing the Single-Tuner Ready Personal Video Recorder (PVR).

This PVR is fully compliant with the international DVB standard and thus transmits digital images, sounds, information guides and teletext directly to your TV through the satellite broadcasting

Now you can comfortably see and receive digitally transmitted music, news, movie and sports satellite broadcasts in your office or at your home. The PVR records and plays back satellite broadcasts. In the service search section, both the automatic service search method and the manual search mode are provided. Also it supports DiSEqC 1.0, 1.1, 1.2 and USALS, enabling you to move your antenna in order to focus preferred satellite. You can save up to 10000 TV and Radio services and work around with Favorite, Sort, Move, Lock, Delete, Rename functions.

The menu is very modern and supports multiple languages. All functions can be carried out using the remote control. The PVR is easy to use and adaptable for future advances. Please be aware that new software may change the functions of the PVR.

If you have any difficulties concerning the operation of your PVR, please refer to the relevant section of this manual. This manual provide you with useful information on using the PVR

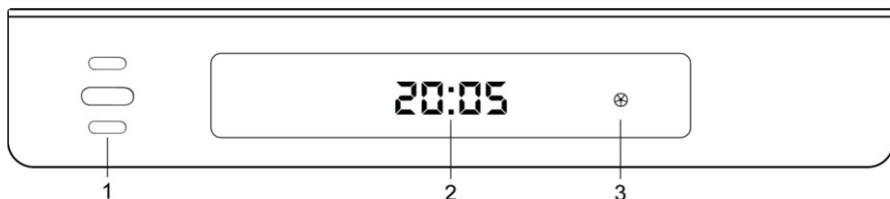


## 1.1 Features

- MPEG-2 Digital and fully DVB compliant
- 2 Common interfaces  
( for NAGRAVISION, CRYPTONWORKS, IRDETO, CONAX, SECA & VIACCESS, CTI, TF)
- 1 Smartcard
- 1 Tuners
- 10000 services (TV and Radio) support
- Multilingual Audio support
- Multilingual menu text support
- Service switching time less than 1 second
- Favorite service list editing
- True color display(OSD) on screen
- Electronic Program Guide (EPG) for on screen service information
- Subtitle supported
- Teletext supported - S/PDIF for digital audio or Dolby AC-3 bitstream output
- DiSEqC 1.0, 1.1, 1.2 and USALS
- HDMI HD Video/Audio Output
- Software update via USB
- Recording capacity : over 80 hours(with 160GB External HDD)
- Time shifting capacity : about 2 hours(with 4GB)
- Powerful trick mode supported
- USB 2.0 supported

## 2. Overview

### 2.1 The front of the digital receiver



#### 1. Button

Power Key : To Switch the receiver power on/stand by.

Up / Down Key : To change channels, or to move cursor up or down in the menu.

#### 2. VDF Display

This VFD display will show the current channel number or current time.

While the receiver is in stand by mode, the display will show the current time.

#### 3. Remote Sensor

This sensor receives the infrared signal from the Remote Control Unit and operates your receiver. Do not block the view of the sensor.

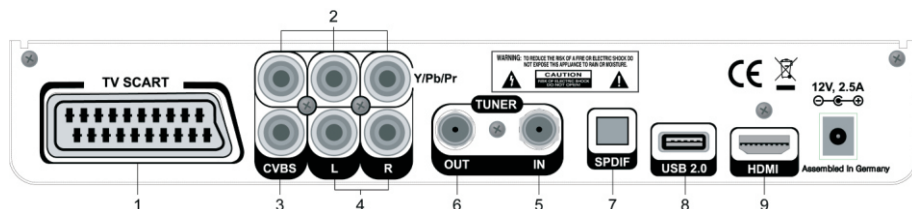
#### 4. Card Slot

One slot CA Interface, Insert the smart card chip side down.

#### 5. Common Interface

Two socket for Conditional Access Module CAM.

## 2.2 The back of the digital receiver



### 1. TV SCART

Audio and video output socket for the television set.

### 2. Y/Pb/Pr

Component video output socket for the television set. (green/blue/red)

### 3. VIDEO

Composite video output socket for the television set. (yellow)

### 4. AUDIO L/R

Stereo audio output socket for the television set or the audio system. (white/red)

### 5. LNB IN

Satellite broadcasting signal input socket.

### 6. LNB OUT

Satellite broadcasting signal output socket through the LNB IN socket for another digital receiver.

### 7. S/PDIF

Dolby digital output socket for the audio system.

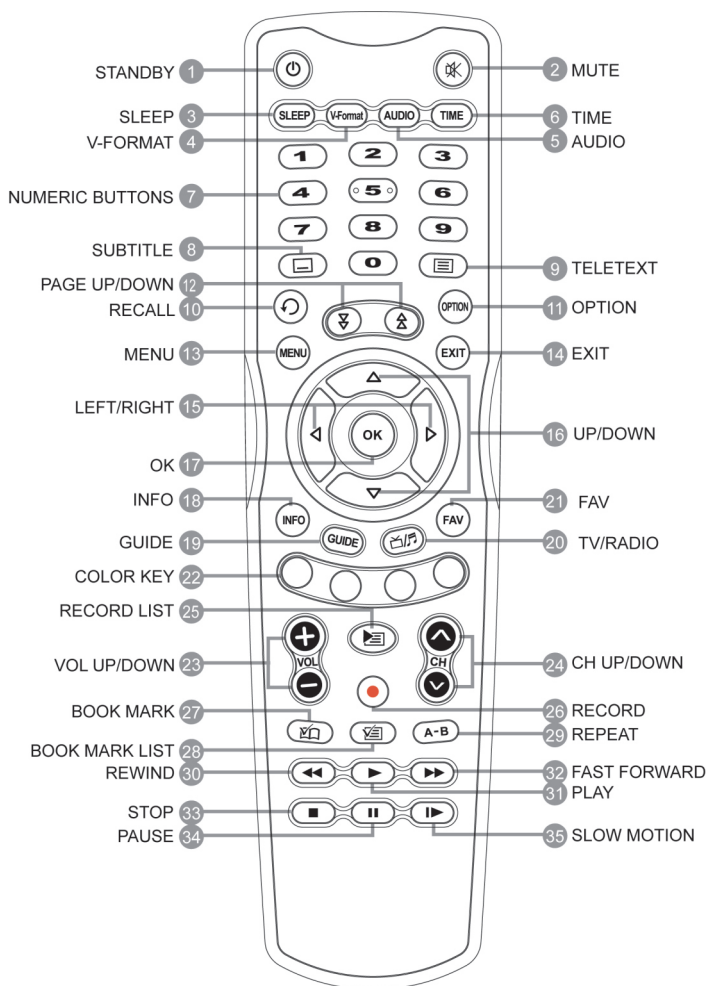
### 8. USB

USB port for firmware update and data transfer.

### 9. HDMI

Audio and video output socket for the high definition television set.

## 2.3 The RCU-320 Remote Control Unit



#### 01. STANDBY

Switches between operation and standby modes.

#### 02. MUTE

Mutes or unmutes the audio temporarily.

#### 03. SLEEP

Sets the sleep timer.

#### 04. V-FORMAT

Changes the resolution of video.

#### 05. AUDIO

Used to select alternative audio track and audio channel (stereo, mono, etc).

#### 06. TIME

Displays the current time.

#### 07. NUMERICAL BUTTONS ( 0 ~ 9 )

Used to enter a service number for service change or to specify values for menu options.

#### 08. SUBTITLE

Displays the subtitle language list.

#### 09. TELETEXT (TTX)

Enters the digital text service.

#### 10. RECALL

Switches between the current service and the previously viewed one.

#### 11. OPTION

Is used to select a video track of multi-feed program.

#### 12. PAGE UP / DOWN

Is used to change the page.

#### 13. MENU

Displays the main menu. It is also used to return to the previous menu from a submenu.

#### 14. EXIT

Is used to exit the current screen.

---

15. ◀/▶ (LEFT/RIGHT)

Changes the volume or move the cursor to the left or right menu option.

16. ▲/▼ (UP/DOWN)

Changes the channel or move the cursor to the up, down menu option.

17. OK

Displays the services list. It is also used to select a menu item.

18. INFO

Displays the service information box. It is also used to display more information about a program.

19. GUIDE

GUIDE displays the electronic program guide.

20. TV/RADIO

Switches between television services and radio services.

21. FAV

Displays the Favorite list.

22. COLOR KEY (RED, GREEN, YELLOW, BLUE)

Select the color keys for interactive applications.

23. VOL UP/DOWN

Changes the volume level in the Non-menu state.

24. CH UP/DOWN

Changes channels in Non-menu state.

25. RECORD LIST

Is used to display the list of recorded programs that are stored on the external hard disk drive.

26. RECORD

Is used to start recording.

## 27. BOOK MARK

In used to set a bookmark.

## 28. BOOK MARK LIST

Displays the list of saved bookmarks.

## 29. REPEAT

In used to set a repeat position.

## 30. REWIND

Is used to start reverse playback. Subsequent presses increase the rewind speed.

## 31. PLAY

Play at normal speed or resume.

## 32. FAST FORWARD

Is used to start fast motion playback. Subsequent presses increase the playback speed.

## 33. STOP

Is used to stop playback, to stop recording, or to jump back to live television from time-shifted television.

## 34. PAUSE

Pauses playback of a recorded program or time shift.

## 35. SLOW MOTION

Plays the program in slow motion. Each time you press this button, speed is slowed progressively more.

## 3. Connection and Preparation

This chapter describes how to set up the receiver. Select the most appropriate procedure depending on your requirements.

Note >>>

If you encounter any problem when setting up your receiver, please contact your local receiver distributor.

### 3.1 Connecting the satellite antenna

Connect the cable from the satellite dish to the LNB IN on the receiver.

### 3.2 Connection to your television set

Between all the following connectors of the digital receiver, we recommend you to use the first connector to get best picture quality, If your television does not have the matching connector, the use the next connector in the following order for better picture quality.

Note >>>

- |                                 |                                    |
|---------------------------------|------------------------------------|
| 1. HDMI connector ( HDMI )      | 3. Component connector ( Y/Pb/Pr ) |
| 2. SCART connector ( TV SCART ) | 4. Composite connector ( VIDEO )   |

### 3.3 Connecting the mains cable

Plug the mains cable into the wall socket.

### 3.4 Inserting batteries in the remote control

To insert the batteries, open the battery compartment by removing the lid, and then insert the batteries observing the polarity, which is marked on the base of the battery compartment.

If the digital receiver no longer reacts properly to remote control commands, the batteries may be flat. Be sure to remove used batteries. The manufacturer accepts no liability for damage resulting from leaking batteries.



Environmental note >>>

Batteries, including those which contain no heavy metals, may not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area.

## 4. Installation Wizard Settings

When powering on your receiver for the first time after purchasing, the Installation Wizard is automatically started.

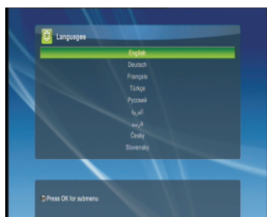
You can easily set-up using simple organization and options, and watch the broadcasting after completing the set-up procedure.

You can move items using the ▲/▼ buttons and select items using the OK button.

Note >>>

If you press the EXIT button while running the Installation Wizard, you can return to the previous screen.

### 4.1 Languages



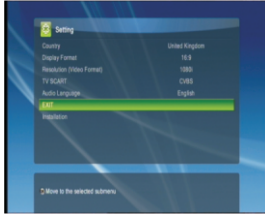
You can select menu language.

Select the appropriate language from the list using the ▲/▼ buttons and press the OK button to save the selected language as a default language.

Note >>>

The display language could be different according to country.

## 4.2 Setting



Setting allows you to set the Country, Display Format, Resolution (Video Format), TV SCART, Audio Language, Quick Installation and Search.

### 4.2.1 Country

- You can select country.
  1. Select Country using the ▲/▼ buttons.
  2. Select your desired area using ◀/▶ button, or press the OK button to display the available list.
  3. When you press the OK button, Select your desired area using the ▲/▼ button and press the OK button.

### 4.2.2 Display Format

- You can set the Display Format of your TV
  1. Select Display Format using the ▲/▼ buttons.
  2. Select 4:3 or 16:9 using ◀/▶ Button.

### 4.2.3 Resolution (Video Format)

- You can select Resolution ( Video Format ).
  1. Select Resolution (Video Format) using the ▲/▼ buttons.
  2. Select your desired Resolution (Video Format) using ◀/▶ button, or press the OK button to display the available list.
  3. When you press the OK button, Select your desired area using the ▲/▼ button and press the OK button.

## 4.2.4 TV SCART

- You can set the TV SCART of video output.

1. Select TV SCART using the ▲/▼ button.
2. Select RGB or CVBS using ◀/▶ Button.

## 4.2.5 Audio Language

- You can select Audio Language.

1. Select Audio Language using the ▲/▼ buttons.
2. Select your desired Audio Language using ◀/▶ button, or press the OK button to display the available list.
3. When you press the OK button, Select your desired Audio Language using the ▲/▼ button and press the OK button.

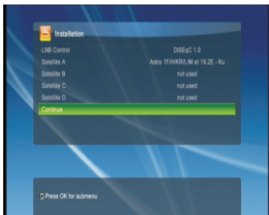
## 4.2.6 Quick Installation

- You can select Quick Installation to complete the Installation Wizard Settings.

## 4.2.7 Search

- You can configure installation settings and search for channels.

## 4.3 Search



This chapter provides how to get the channels by search.

### 4.3.1 LNB Control

- To scan channels, you must select the correct LNB type that you have on your dish. You can change the LNB Type by using the ◀/▶ button.
  1. Select LNB Control using the ▲/▼ buttons.
  2. Select among DiSEqC / Tone Burst / No DiSEqC using ◀/▶ button, or press the OK button to display the available list.
  3. When you press the OK button, Select your desired LNB Control using the ▲/▼ button and press the OK button

Note >>>

If the DiSEqC does not exist then select No DiSEqC.

### 4.3.2 Satellite Setting

- If LNB Control was set up, you can set the satellite name into Satellite A ~ D.
  1. Select Satellite A ~ D using the ▲/▼ button.
  2. Select one satellite among the list using the ◀/▶ button, or press the OK button to display the available list.
  3. When you press the OK button, Select your desired satellite name using the ▲/▼ Button and press the OK button

### 4.3.3 Continue

- If LNB Control and Satellite A ~ D were set up, Select the Continue using the ▲/▼ Button, and press the OK button to start the searching process.

## 5. Basic Operation

This chapter describes functions such as Switching Channel, Volume Control, and basic features for watching programs.

### 5.1 Switching Channel

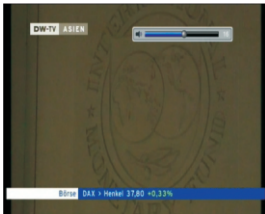
- You can change channels by :
  - Pressing the ▲/▼ or CH ▲/▼ Buttons.
  - Entering the channel number using the NUMERICAL (0-9).
  - Press the TV/RADIO button to switch between TV and Radio channels.

Note >>>

You can also change channels using the channel list or program guide.

### 5.2 Volume Control

- You can adjust the audio volume.



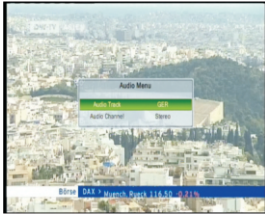
- Press the VOL + / - buttons to adjust the audio volume.
- Press the MUTE button to stop the audio temporarily
- Press the MUTE button again to restore the sound to previous level.

### 5.3 Resolution



- You can set the resolution of the screen. Press the V-FORMAT button while watching a program. The current resolution will be displayed. Each time you press the V-FORMAT button. The resolution changes in the following sequence : 576i -> 576p -> 720p -> 1080i->576i.

## 5.4 Audio Menu



- If multiple Audio Track / Channel are available, you can select the one.
  1. Press the AUDIO button.
  2. Select the Audio Track using the ◀/▶ Button.
  3. Select the Audio Channel ( Stereo, Mono, Mono(LL), Mono(RR) ) using the ◀/▶ Button.
  4. Press the EXIT button to close.

## 5.5 Subtitle Menu



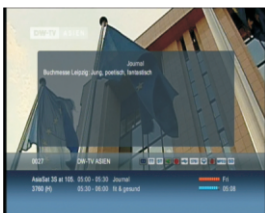
- If multiple subtitle languages are available, you can select the one.
  1. Press the SUBTITLE button.
  2. Select the subtitle using the ◀/▶ or ▲/▼ button and press the OK button.

## 5.6 Teletext



- If your chosen channel has digital teletext features, you can access them.
  1. Press the TELETEXT button.
  2. Press the TELETEXT button again to return to normal viewing.

## 5.7 Program Information



- You can view the Program Information by pressing the Info button while watching a program. Press the EXIT button to hide the Program Information. You can see detailed information about the current program. Press the Info button where Program Information is displayed to view detailed information.

Note >>>

Press the Info button again to hide the Program Information box.

## 5.8 Channel List

- This chapter will help you use the various channel lists available.
  1. Press the OK button while watching a program to display the channel list,
  2. Select your desired channel using the ▲/▼ button and press the OK button to change the channel.

Note >>>

Press the EXIT button to remove the channels list.

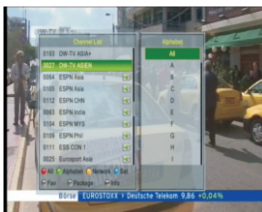
Press the INFO button to display the channel Information

### 5.8.1 All List



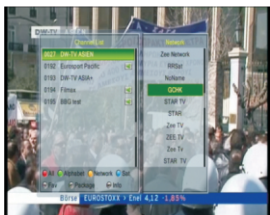
- You can sort channels by channel No. (Numeric).
  1. Press the OK button while watching a program to display the channel list.
  2. Press the RED button to sort channel by channel No.

### 5.8.2 Alphabet List



- You can sort channels by alphabet list.
  1. Press the OK button while watching a program to display the channel list
  2. Press the GREEN button to display the alphabet list
  3. Press the GREEN button again and select a sub group using the ▲/▼ Button

## 5.8.3 Network List



- You can sort channels by network list.

1. Press the OK button while watching a program to display the channel list.
2. Press the YELLOW button to display the network list.
3. Press the YELLOW button again and select a sub group using the ▲/▼ Button.

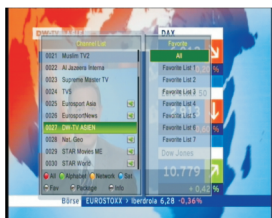
## 5.8.4 Satellite List



- You can sort channels by Satellite group.

1. Press the OK button while watching a program to display the channel list.
2. Press the BLUE button to display the Satellite groups.
3. Press the BLUE button again and select a sub group using the ▲/▼ button.

## 5.8.5 Favorite List



- You can sort channels by favorite group.

1. Press the OK button while watching a program to display the channel list.
2. Press the FAV button to display the favorite groups.
3. Press the FAV button again and select a sub group using the ▲/▼ Button.

## 5.8.6 Package List



- You can sort channels by Package.  
(E.g. SD, HD, Movie, News, Show, Sports, Children, etc)

1. Press the OK button while watching a program to display the channel list.
2. Press the OPT button to display the package list.
3. Press the OPT button again and select a sub group using the ▲/▼ button.



## 6. Time Shifted Recording (TSR)

Your PVR automatically saves the program on air in the external usb hard disk temporarily, so that users can watch programs as they watch a video tape using functions such as Pause, Rewind, Fast Forward and Slow Motion.

### 6.1 Pause



- If you press the PAUSE button on the remote controller, the current program is paused. If you press the PLAY button, the program is resumed from that point.

Note >>>

Pause makes the time difference or delay between the broadcasting point and watching point. The time difference is equal to the paused time period. You can check the time difference in the Time bar (TSR Time). Other operations such as slow motion and rewind also make the time difference. Press the STOP button to remove the time difference, and watch the program on air presently.

### 6.2 Rewind



- Press the REWIND button on the remote controller to watch the scene passed by. Whenever you press the REWIND button, the rewind speed increases by 2 steps. (x2, x4). If you press the PLAY button, the rewinding operation stops, and the program is played at normal speed.

Note >>>

You can rewind to the point when you have changed to the current channel. If the watching point reaches the start point during rewinding, the program is automatically played at normal speed from the point.

## 6.3 Fast Forward



- Press the FORWARD button on the remote controller to fast forward the program. Whenever you press the FORWARD button, the speed increases by 2 steps. (x2, x4)

If you press the PLAY button, the fast forward operation is stops, and the program is played at normal speed.

### Note >>>

You can use the fast forward operation only when there is a time difference between the current watching and the broadcasting point caused by some previous operations such as pause, slow motion, and rewind. You can fast forward to the current broadcasting point. If the watching point reaches to the broadcasting point, the program is automatically played at normal speed.

## 6.4 Slow Motion



- Press the SLOW MOTION button to play the current program in slow motion mode.

Whenever you press the SLOW MOTION button, the speed decreases by 3 steps. (x1/2 , x1/4, x1/8) Press the PLAY button to stop playing in slow motion and play the program at normal speed.

## 7. Recording and Playback a Recorded Service

Since this receiver connected with external usb hard disk, you can record a program without an external media device such as a VCR.

Note >>>

- You must connect a hard disk drive to the USB port on the back of the digital receiver before everything. The hard disk drive should have its own power supply because the digital receiver cannot supply power enough to drive it through the USB port
- The USB memory stick which speed is slow does not support.

### 7.1 Instant Recording

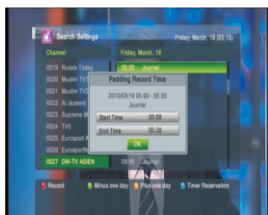


- Press the RECORD button on the remote controller to record the current program instantly.

Notice >>>

- Ensure that there is enough free space before recording, because if the free space on the hard disk drive is insufficient, recording will stop. Recording 1 hour of program may require up to 3GB of free space of hard disk space. The space for recording 1 hour of program may be different depending on the program recorded.
- You can record radio programs with this receiver.

### 7.2 Recording Reservation



- You can reserve recording to record your desired program automatically. You can reserve recording of program using Program Guide.

1. Press the GUIDE button.
2. Select Program using the ▲/▼button and press the RED button.

## 7.3 Playback Recording File



1. Press the RECORD LIST button.
2. Select the desired program to playback using the ▲/▼ button, and then press the OK button to playback the program.
3. Press the STOP button to stop the current program, and watch the Recording List.

4. You can perform time shift operation like VCR functions such as rewind, forward, slow motion, pause, skip, and replay using the playback control or the additional buttons on the remote controller while you are playing back a program.

## 7.4 Bookmark

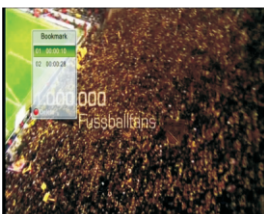
- You can mark favorite parts of a recording by creating bookmark. and then jump to them.

### 7.4.1 Adding Bookmark



- You can jump to a position directly using the bookmark feature in recorded file playback. Use bookmarks to search a specific scene quickly and conveniently.
- Press the ADD BOOKMARK button at the location you want to set a bookmark while playing back a recorded file.

### 7.4.2 Bookmark List



1. Press the BOOKMARK LIST button after adding a bookmark.
2. Select the location you wish to view using the ▲/▼ button, and press the OK button..
3. Press the EXIT button to return to the play bar.
4. To delete a location, select the location you want to delete and press the RED button.

## 8. Program Guide

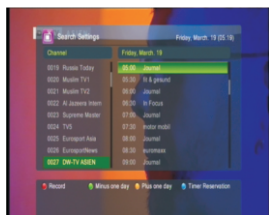
The Program Guide displays program information about each channel, based on the date and time. You can also schedule your recording using the information given.

1. Press the GUIDE button.

Note >>>

Press the MENU , EXIT or GUIDE button to exit the Guide screen.

### 8.1 Program Guide Information



- You can view program information for all channels.

1. Move to previous or next program within the same channel using the ▲/▼ Button.
2. Move to the previous / next day using the GREEN / YELLOW button.

3. Press the OK button in the selected program to view detailed Information for the selected program.
4. Select your desired program from left column, and then move the cursor using the ◀/▶ or ▲/▼ Button and press the OK button.  
Then you can watch the program if it is on air,

### 8.2 Record

- You can automatically reserve your desired program by selecting the scheduled program and pressing the RED button.
1. Select the desired program and press the RED button to complete reservation.
  2. This icon (Reservation Icon) will be displayed.

### 8.3 Timer Reservation

- You can view the time when the receiver is automatically recording.
1. Press the BLUE button to display the Timer Reservation List.

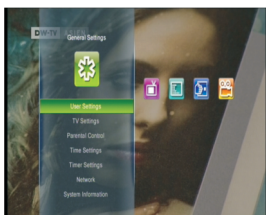
## 9. Menu Operation

You can set General Settings, Installation, Channel Edit, Common Interface, PVR, and all other items suitable for your environment.

Note >>>

- Press the BACK button to save the changes and return to the previous menu.
- Press the MENU button to exit the Menu screen.

### 9.1 General Settings



- In this chapter you can set options for User Settings, TV Settings, Parental Control, Time settings, Timer Settings, Network, and System Information.

#### 9.1.1 User Settings



1. Press the MENU button.
2. Select General Settings using the ◀/▶ button..
3. Select User Settings using the ▲/▼ button, and press the OK button.

##### 9.1.1.1 Menu Language

- You can set the language for Menu.
  1. Select Menu Language using the ▲/▼ button.
  2. Select your desired menu language using ◀/▶ button, or press the OK button to display the available Language List.
  3. When you press the OK button, Select your desired menu language using the ▲/▼ button in Language List, and press the OK button.

### 9.1.1.2 Primary Audio Language

- You can set the language for Primary Audio. Default language is English.
  1. Select Primary Audio Language using the ▲/▼ button.
  2. Select your desired audio language using ◀/▶ button, or press the OK button to display the available Language List.
  3. When you press the OK button, Select your desired audio language using the ▲/▼ button in Language List, and press the OK button

### 9.1.1.3 Secondary Audio Language

- You can set the language for Secondary Audio. Default language is English.
  1. Select Secondary Audio Language using the ▲/▼ button.
  2. Select your desired audio language using ◀/▶ button, or press the OK button to display the available Language List.
  3. When you press the OK button, Select your desired audio language using the ▲/▼ button in Language List, and press the OK button.

### 9.1.1.4 Subtitles

- You can set the Subtitle ON/OFF
  1. Select Subtitles using the ▲/▼ button.
  2. Select ON or OFF using ◀/▶ button for subtitle.

### 9.1.1.5 Subtitle Language

- You can set the language for Subtitle. Default language is English.
- You can only set Subtitle Language if ON is selected in the Subtitles menu item
  1. Select Subtitle Language using the ▲/▼ button.

2. Select your desired subtitle language using the ◀/▶ button, or press the OK button to display the available Language List.
3. When you press the OK button, Select your desired subtitle language using the ▲/▼ button in Language List, and press the OK button.

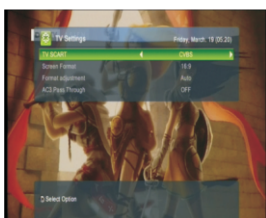
### 9.1.1.6 Transparency

- You can set the transparency. Default value is 100%.
  1. Select Transparency using the ▲/▼ button.
  2. Select your desired transparency using ◀/▶ Button.

### 9.1.1.7 OSD Info Time Limit

- You can set the time for OSD info. Default time is 5 second.
  1. Select OSD Info time limit using the ▲/▼ button.
  2. Select your desired time using ◀/▶ Button.

## 9.1.2 TV Settings



- You can set TV output.
  1. Press the MENU button.
  2. Select General Settings using the ◀/▶ button.
  3. Select TV Settings using the ▲/▼ button, and press the OK button.

### 9.1.2.1 TV SCART

- You can set the TV SCART of video output.
  1. Select TV SCART using the ▲/▼ button.
  2. Select RGB or CVBS using ◀/▶ Button.



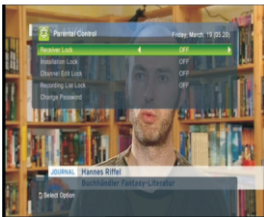
### 9.1.2.2 Screen Format

- You can set the Screen Format of video output.
  1. Select Screen Format using the ▲/▼ button.
  2. Select 4:3 or 16:9 using ◀/▶ Button.

### 9.1.2.3 Format Adjustment

- You can set the Format adjustment of your TV.
  1. Select Format adjustment using the ▲/▼ button.
  2. When choosing 4:3 as Screen Format, Select among Auto, Zoom and Letterbox using ◀/▶ Button.
  3. When choosing 16:9 as Screen Format, Select among Auto, Zoom and Pillar box using ◀/▶ button.

### 9.1.3 Parental Control



- You can set access control for each program and menu. You can also change your PIN.
  1. Press the MENU button.
  2. Select General Settings using the ◀/▶ Button.
  3. Select Parental Control using the ▲/▼ button, and press the OK button.
  4. When prompting message is displayed to ask PIN, Enter the PIN using the NUMERICAL (0~9) buttons.

Note >>>

The Default PIN is 0 0 0 0.

### 9.1.3.1 Receiver Lock

- You cannot use the digital receiver until you have entered a PIN code.
  1. Select Receiver Lock using the ▲/▼ Button.
  2. Select On or Off using the ◀/▶ button.

### 9.1.3.2 Installation Lock

- You cannot use the installation menu until you have entered a PIN code
  1. Select Installation Lock using the ▲/▼ Button
  2. Select On or Off using the ◀/▶ button

### 9.1.3.3 Channel Edit Lock

- You cannot use the channel edit menu until you have entered a PIN code.
  1. Select Channel Edit Lock using the ▲/▼ Button
  2. Select On or Off using the ◀/▶ button

### 9.1.3.4 Recording List Lock

- You cannot use the recording list menu until you have entered a PIN code.
  1. Select Recording List Lock using the ▲/▼ Button.
  2. Select On or Off using the ◀/▶ button

### 9.1.3.5 Change Password

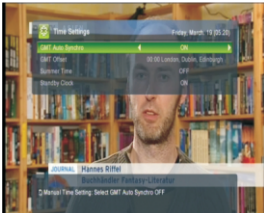
- You can change the current password into new one.
  1. Select Change Password using the ▲/▼ button, and press the OK button.
  2. Enter Current Password using the NUMERICAL (0-9) button

3. Enter New Password using the NUMERICAL (0-9) button
4. Enter New Password again to confirm the Verify Password

Note >>>

The Default Password is 0 0 0 0. If you have forgotten your Password, please contact your local receiver distributor.

## 9.1.4 Time Setting



- You can set Time.
  1. Press the MENU button.
  2. Select the General Settings using the ◀/▶ Button.
  3. Select the Time Setting using the ▲/▼ button, and press the OK button.

### 9.1.4.1 GMT Auto Synchro

- You can set the time difference to Greenwich mean time yourself or let the receiver set it automatically.
  1. Select the GMT Auto Synchro using the ▲/▼ Button
  2. Select ON or OFF using the ◀/▶ Button

### 9.1.4.2 GMT Offset

- You can only set GMT Offset if ON is selected in the GMT Auto Synchro menu item.
  1. Select GMT Offset using the ▲/▼ Button
  2. Select your GMT Offset using the ◀/▶ button or Press the OK button to display GMT Offset List. GMT Offset is changed by from 30 minutes to 1 hour.

3. When you press the OK button, Select your GMT offset using the ▲/▼ Buttons, and presses the OK button.

Note >>>

The current time is set automatically whenever GMT Offset changes

#### 9.1.4.3 Summer Time

- You can only set Summer Time if ON is selected in the GMT Auto Synchro menu item.
  1. Select the Summer Time using the ▲/▼ Button
  2. Select ON or OFF using the ◀/▶ button.

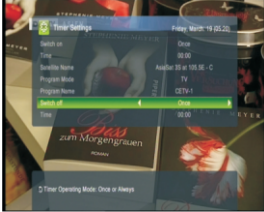
#### 9.1.4.4 Current Date

- You can set the Current Date for manual time.
- You can only set the Current Data if OFF is selected in the GMT Auto Synchro menu item
  1. Select Current Date using the ▲/▼ Button
  2. Enter the Date using the NUMERICAL (0-9) button

#### 9.1.4.5 Current Time

- You can set the Current Time for manual time.
- You can only set the Current Time if OFF is selected in the GMT Auto Synchro menu item
  1. Select Current Time using the ▲/▼ Button
  2. Enter the Time using the NUMERICAL (0-9) button

## 9.1.5 Timer Setting



- You can set Switch on / off Time.

1. Press the MENU button.
2. Select the General Settings using the ◀/▶ Button.
3. Select the Timer Settings using the ▲/▼ Button, and press the OK button.

### 9.1.5.1 Switch On

- You can select one of mode option among None, Once and Always using the ◀/▶ button

1. Select the Switch on using the ▲/▼ Button
2. Select among None, Once and Always using the ◀/▶ button.

Note >>>

- Once and Always : Uses the Wakeup and sets the Wakeup Time
- None : Not uses the Wakeup

### 9.1.5.2 Switch On Time

- You can set the Time when the receiver is automatically Wakeup.
- You can only set the Time if Once or Always is selected in the Switch On menu item

1. Select Time using the ▲/▼ Button
2. Enter the Time using the NUMERICAL (0-9) button.

### 9.1.5.3 Satellite Name

- You can only set Satellite Name if Once or Always is selected in the Switch On menu item

1. Select Satellite Name using the ▲/▼ Button

2. Select your desired option using the ◀/▶ button or Press the OK button to display Satellite Name List.
3. When you press the OK button, Select your desired option using the ▲/▼ Buttons, and presses the OK button.

#### 9.1.5.4 Program Mode

- You can only set Program Mode if Once or Always is selected in the Switch On menu item
  1. Select Channel Mode using the ▲/▼ Button
  2. Select TV or Radio using the ◀/▶ Button

#### 9.1.5.5 Program Name

- You can only set Program Name if Once or Always is selected in the Switch On menu item
  1. Select Program Name using the ▲/▼ Button
  2. Select your desired option using the ◀/▶ button or Press the OK button to display Program Name List.
  3. When you press the OK button, Select your desired option using the ▲/▼ Buttons, and presses the OK button.

#### 9.1.5.6 Switch Off

- You can select one of mode option among None, Once and Always using the ◀/▶ button
  1. Select Switch Off using the ▲/▼ Button
  2. Select among None, Once and Always using the ◀/▶ button

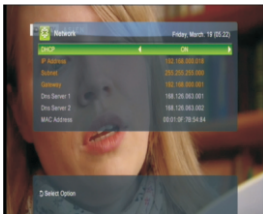
Note >>>

- Once and Always : Uses the Standby and sets the Standby Time
- None : Not uses the Standby

### 9.1.5.7 Switch Off Time

- You can set the time when the receiver is automatically standby.
- You can only set Switch Off Time if Once or Always is selected in the Switch Off menu item
  1. Select Time using the ▲/▼ Button
  2. Enter the Time using the NUMERICAL (0-9) button.

### 9.1.6 Network



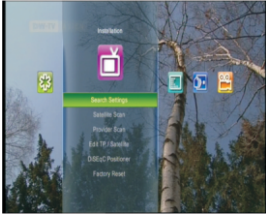
- You can set Network Information.
  1. Press the MENU button.
  2. Select the General Settings using the ◀/▶ Button.
  3. Select the Network using the ▲/▼ button, and press the OK button.
  4. Select DHCP using the ▲/▼ button and press the ◀/▶ button to select ON or OFF. When selecting OFF, you can enter the value for the network information.
  5. Press the EXIT button to save the changes.

### 9.1.7 System Information



- You can view System Information.
  1. Press the MENU button.
  2. Select the General Settings using the ◀/▶ Button.
  3. Select the System Information using the ▲/▼ button, and press the OK button.
  4. Confirm the information about Model Name, Hardware Version, Software Version, Software Date and Boot Version

## 9.2 Installation



- In this chapter you can set options for Search Settings, Satellite Scan, Provider Scan, Edit TP / Satellite, DiSEqC Positioner and Factory Reset.

### 9.2.1 Search Settings



- This Chapter describes how to search for channel and a series of procedures.
- You can set Antenna and LNB Information for channel search. If antenna is not correctly set, you cannot search channel, therefore, you cannot watch a program, either.

1. Press the MENU button.
2. Select Installation using the ◀/▶ button..
3. Select Search Settings using the ▲/▼ button, and press the OK button.

Note >>>

- Auto : Press the RED button to .
- Manual : Press the GREEN button to .
- Blind Scan : Press the YELLOW button to .
- DiSEqC Positioner : Press the BLUD button to .

#### 9.2.1.1 Satellite

- You can select Satellite.
  1. Select Satellite using the ▲/▼ Button
  2. Select your desired option using the ◀/▶ button or Press the OK button to display Satellite List.
  3. When you press the OK button, Select your desired option using the ▲/▼ Buttons, and presses the OK button.



### 9.2.1.2 LNB Frequency

- You can select the LNB Frequency
  1. Select LNB Frequency using the ▲/▼ button.
  2. Select your desired option using the ◀/▶ button or Press the OK button to display LNB Frequency List.
  3. When you press the OK button, Select your desired option using the ▲/▼ buttons, and presses the OK button.

### 9.2.1.3 DiSEqC 1.0

- You can select the DiSEqC 1.0 option
  1. Select DiSEqC 1.0 using the ▲/▼ button.
  2. Select your desired option using the ◀/▶ button or Press the OK button to display DiSEqC 1.0 List.
  3. When you press the OK button, Select your desired option using the ▲/▼ buttons, and presses the OK button.

### 9.2.1.4 DiSEqC 1.1

- You can select the DiSEqC 1.1 option
  1. Select DiSEqC 1.1 using the ▲/▼ button.
  2. Select your desired option using the ◀/▶ button or Press the OK button to display DiSEqC 1.1 List.
  3. When you press the OK button, Select your desired option using the ▲/▼ buttons, and presses the OK button.

### 9.2.1.5 22KHz Tone

- You can select the 22Khz Tone option ( Auto, OFF and ON )
  1. Select 22Khz Tone using the ▲/▼button.

2. Select your desired option using the ◀/▶ button or Press the OK button to display 22Khz Tone List.
3. When you press the OK button, Select your desired option using the ▲/▼ Buttons, and presses the OK button.

### 9.2.1.6 Select TP

- You can select the Transponder for Manual Search
  1. Select Transponder using the ▲/▼ button.
  2. Select your desired option using the ◀/▶ button or Press the OK button to display Transponder List.
  3. When you press the OK button, Select your desired option using the ▲/▼ Buttons, and presses the OK button.

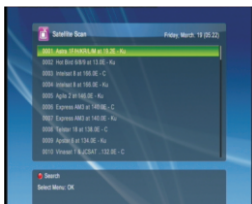
### 9.2.1.7 Search

- When you press the RED or YELLOW button, You can select the Network (Yes and No) and Channel (All, FTA, TV and Radio ).
  1. Select your desired option using the ▲/▼ Or ◀/▶ button, and press the OK button to start the searching process.

Network >>>

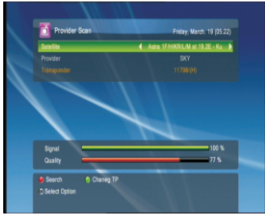
- When you select YES, you can find more transponders using the home network

## 9.2.2 Satellite Scan



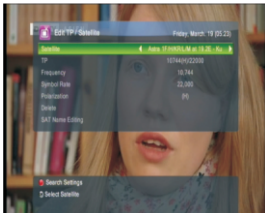
- This Chapter will allow you to search multiple satellites.
  1. Press the MENU button.
  2. Select Installation using the ◀/▶ Button.
  3. Select Satellite Scan using the ▲/▼ button, and press the OK button.
  4. Select multiple satellites using the OK button, and press the RED button to start the searching process.

### 9.2.3 Provider Scan



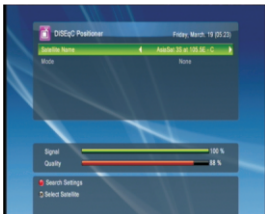
- This Chapter will allow you to search provider scan
  1. Press the MENU button.
  2. Select Installation using the ◀/▶ Button.
  3. Select Provider Scan using the ▲/▼ button, and press the OK button.
  4. Select Satellite and Provider using the ◀/▶ And ▲/▼ button, and press the RED button to start the searching process.

### 9.2.4 Edit TP / Satellite



- This Chapter will allow you to add or modify satellites or TPs.
  1. Press the MENU button.
  2. Select Installation using the ◀/▶ Button.
  3. Select Edit TP / Satellite using the ▲/▼ button, and press the OK button.

### 9.2.5 DiSEqC Positioner



- This Chapter will allow you to set the DiSEqC Positioner.
  1. Press the MENU button.
  2. Select Installation using the ◀/▶ Button.
  3. Select DiSEqC Positioner using the ▲/▼ button, and press the OK button.

### 9.2.5.1 DiSEqC

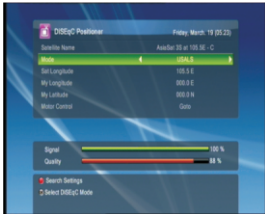


- This mode will allow you to set the antenna position for each satellite. In order to use antenna positioner you must use a motor controlled by DiSEqC 1.2 commands.

1. Select Mode using the ▲/▼ Button.
  2. Select DiSEqC Motor using the ◀/▶ button or press the OK button to display DiSEqC Mode List.
  3. When you press the OK button, Select DiSEqC Motor using the ▲/▼ button, and press the OK button.
- Satellite Name : Choose your desired satellite at the Satellite Name option.
  - Mode : Select the DiSEqC Motor option.
  - TP Frequency : Select the transponder to catch the strong signal.
  - Command Mode : Select among User and Installer.
    - User : To adjust the position step by step using Movement menu item by press the ◀/▶ Button.
    - Installer : To adjust the position of the antenna using Movement menu item by press the ◀/▶ Button.
  - Movement : Press the ◀/▶ button.
    - In user mode this is used to fine-tune the position of the motor for better reception.
    - In Installer mode this is used to search for the position for a satellite manually.
  - Motor Control : Select one of mode option using the ◀/▶ button and press the OK button.
    - if User is selected in the Command Mode menu item, You can only select one of mode option among Go to, Recalculate and Go to Reference.
    - if Installer is selected in the Command Mode menu item, You can only select one of mode option among Go to, Recalculate, Go to Reference, West Limit, East Limit, Limit ON and Limit OFF.
    - Goto :To go to stored position of the motor for the selected satellite.

- Recalculate : To recalculate the current position of the motor for the selected satellite.
- Goto Reference : To go to reference position.
- West Limit : Set the limits of West.
- East Limit : Set the limits of East.
- Limit ON : To enable the limits of West and East.
- Limit OFF : To disable the limits of West and East.

### 9.2.5.2 USALS



- This mode will allow you to use a DiSEqC 1.3 motor controlled by USALS(Universal Satellite Automatic Location System).

1. Select Mode using the ▲/▼ Button.
2. Select USALS using the ◀/▶ button or press the OK button to display DiSEqC Mode List.

3. When you press the OK button, Select USALS using the ▲/▼ button, and press the OK button.

- Satellite Name : Choose your desired satellite at the Satellite Name option.
- Mode : Select the USALS option.
- Sat Longitude : It means the longitude of satellite location. You can use numeric keys of RCU to enter the angle. East or West will be selected by ▲/▼ Buttons.
- My Longitude : It means the longitude of your location. You can use numeric keys of RCU to enter the angle. East or West will be selected by ▲/▼ Buttons.
- My Latitude : It means the latitude of your location. You can use numeric keys of RCU to enter the angle. South or North will be selected by ▲/▼ Buttons.
- Motor Control : Refer to the chapter Installation/DiSEqC Positioner/DiSEqC in this manual.

## 9.2.6 Factory Reset



- Factory Reset enables you to restore the product to the factory default.

1. Press the MENU button.
2. Select Installation using the ▲/▼ button..
3. Select Factory Reset using the ▲/▼ button, and press the OK button.
4. Enter your password to proceed with the Factory Reset.
5. When the Factory Reset is completed, the product will restart and the Installation Wizard will appear on screen.

### Warning >>>

Please note that once you perform Factory Reset, all data such as the antenna setting information, channel list and user configured data will be deleted.

### Note >>>

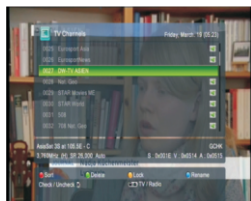
The Default PIN is 0 0 0 0.

## 9.3 Channel Edit



- In this chapter you can set options for TV Channels, Radio Channels, Favorite Lists, Network and Genre.

### 9.3.1 TV and Radio Channel Lists



- You can edit TV or Radio channels by channel list group.
  1. Press the MENU button.
  2. Select the Channel Edit using the ▲/▼ Button.
  3. Select the TV or Radio Channels using the ▲/▼ button, and press the OK button

#### 9.3.1.1 Sort

- You can sort channels by sort list
  1. Press the RED button to view the sort list
  2. Select your desired option using the ▲/▼ Button
  3. Press the OK button to sort channels

Note >>>

- Name : The list of channels is sorted by Name
- Number : The list of channels is sorted by Numeric
- TP : The list of channels is sorted by TP
- FTA : The list of channels is sorted by Unscramble and Scramble

#### 9.3.1.2 Move

- You can move one or more channels into your desired location, which changes the channel number accordingly..
  1. Select your desired channel, and then press the OK button. You can select multiple channels.
  2. Press the RED button.
  3. Move the cursor to the desired location in the channel list using the ▲/▼ button, and press the OK button.
  4. The selected channel(s) is moved to the selected location in order.

### 9.3.1.3 Delete

- You can delete one or more channels.
  1. Select your desired channel, and then press the OK button. You can select multiple channels.
  2. Press the GREEN button to delete the chosen channels.

### 9.3.1.4 Lock

- You can lock or unlock one or more channels.
  1. Select your desired channel, and then press the OK button. You can select multiple channels.
  2. Press the YELLOW button

Note >>>

- Only if all selected channels are locked, Lock is switched into Unlock. When you select Lock, locked channel is switched into unlocked channel.
- Enter PIN using the NUMERICAL (0-9) button to watch locked channel.  
None : Not uses the Standby

### 9.3.1.5 Rename

- You can rename channels
  1. Select your desired channel, and then press the BLUE button.
  2. Move the cursor using the ◀/▶ or ▲/▼ button and press the OK button
  3. If want to save, Move the cursor to OK Icon using the ◀/▶ or ▲/▼ button and press the OK button
  4. Press the Back button to close Rename



### 9.3.1.6 TV / Radio

- You can switch between TV Channel List and Radio Channel List
  1. Press the TV/RADIO button

### 9.3.2 Favorite



- You can edit favorite list by favorite list group.
  1. Press the MENU button.
  2. Select the Channel Edit using the ◀/▶ Button.
  3. Select the Favorite Lists using the ▲/▼ button, and press the OK button

#### 9.3.2.1 Change Favorite List

- In Favorite List Menu, You can switch next favorite lists.
  1. Press the Fav button to switch next favorite list group

#### 9.3.2.2 Select Favorite List

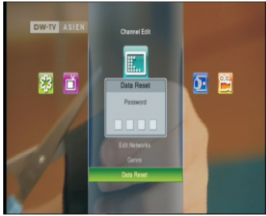
- In Favorite List Menu, You can select favorite lists.
  1. Press the NUMERICAL (1-7) button to select favorite list group

#### 9.3.2.3 Add

- In Favorite List Menu, You can add a channel to Favorite lists.
  1. Select your desired channel from left column, and then move the cursor using the ▲/▼ Button.
  2. Press the OK button to add the channel to Favorite List.
  3. Repeat this step to add more channels.



### 9.3.5 Data Reset



- Data Reset enables you to restore the product to the default channel.

1. Press the MENU button.
2. Select Installation using the ◀/▶ button..
3. Select Data Reset using the ▲/▼ button, and press the OK button.
4. Enter your password to proceed with the Data Reset..

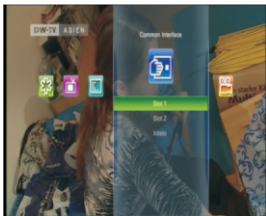
Warning >>>

Please note that once you perform Data Reset, all data such as the channel data will be deleted.

Note >>>

The Default PIN is 0 0 0 0.

### 9.4 Common Interface

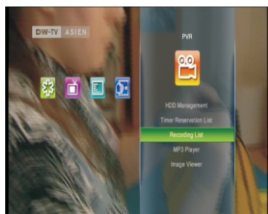


- You can view the current status of CI module and Smart Card.
1. Press the MENU button.
  2. Select the Common Interface using the ◀/▶ Button.
  3. Select Slot or Card using the ▲/▼ button, and press the OK button. If Common Interface is available, you can view information about Slot

Note >>>

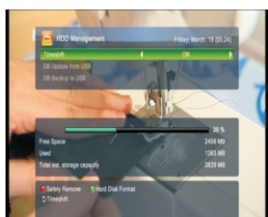
The displayed information about Common Interface may differ depending on Common Interface type.

## 9.5 PVR



- In this chapter you can set options for HDD Management, Timer Reservation List, Recording List, MP3 Player and Image Viewer

### 9.5.1 HDD Management



- You can check the free space of the hard disk drive.
  1. Press the MENU button.
  2. Select the PVR using the ▲/▼ Button.
  3. Select the HDD Management using the ◀/▶ button, and press the OK button

#### 9.5.1.1 TimeShift

- You can set the TimeShift ON/OFF
  1. Select TimeShift using the ▲/▼ button.
  2. Select ON or OFF using ◀/▶ button for TimeShift.

#### 9.5.1.2 Safely Remove

- You can set the TimeShift ON/OFF
  1. Press the RED button for the Safely Remove confirm message
  2. Select the OK and press the OK button to complete the Safely Remove.
  3. Select the EXIT and press the OK button to cancel the Safely Remove.

### 9.5.1.3 Hard Disk Format

- You can format the disk drive to remove all the recorded programs saved on the HDD, and initialize the HDD

1. Press the GREEN button for the format confirm message
2. Enter a PIN to start formatting the HDD.

Note >>>

- You have to be careful because performing format deletes all the recorded programs saved on the HDD.
- Even if you have removed the HDD because it is out of order, you can still watch programs.

### 9.5.2 Timer Reservation List



- You can set the time when the receiver is automatically recording.
1. Press the MENU button
  2. Select the PVR using the ◀/▶ Button.
  3. Select Timer Reservation List using the ▲/▼ button and press the OK button.

### 9.5.2.1 Add

1. Press the RED button to add a new Recording Timer.
2. Change the Repeat mode using the ◀/▶ button. The options are Once, Daily, and Weekly
3. Change Start Time using the NUMERICAL (0~9) button.
4. Change Duration using the NUMERICAL (0~9) button.
5. Change the Satellite Name using the ◀/▶ button or press the OK button. When you press the OK button, Select one item using ▲/▼ button and the OK button.
6. Change the Channel Name using the ◀/▶ button or press the OK button. When you press the OK button, Select one item using ▲/▼ button and the OK button.
7. If you want to save, Press the RED button
8. If press the EXIT button
  - Select the OK and press the OK button to complete the entering
  - Select the EXIT and press the OK button to cancel the reservation

### 9.5.2.2 Edit

1. Press the GREEN button to edit the Recording Timer.
2. Change the Repeat mode using the ◀/▶ button. The options are Once, Daily, and Weekly.
3. Change Start Time using the NUMERICAL (0~9) button.
4. Change Duration using the NUMERICAL (0~9) button.
5. Change the Satellite Name using the ◀/▶ button or press the OK button. When you press the OK button, Select one item using ▲/▼ button and the OK button.
6. Change the Channel Name using the ◀/▶ button or press the OK button. When you press the OK button, Select one item using ▲/▼ button and the OK button.
7. If you want to save, Press the RED button
8. If press the EXIT button,
  - Select the OK and press the OK button to complete the entering.
  - Select the EXIT and press the OK button to cancel the reservation

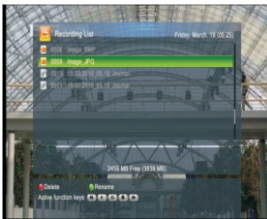
### 9.5.2.3 Delete

1. Press the Yellow button to delete a Recording Timer
2. Select the OK and press the OK button to complete the delete.
3. Select the EXIT and press the OK button to cancel the delete.

### 9.5.2.4 Delete All

1. Press the Blue button to delete all Recording Timer
2. Select the OK and press the OK button to complete the delete.
3. Select the EXIT and press the OK button to cancel the delete.

## 9.5.3 Recording List



1. Press the MENU button
2. Select the PVR using the ◀/▶ Button.
3. Select Recording List using the ▲/▼button and press the OK button.

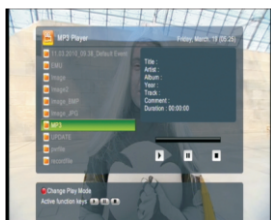
### 9.5.3.1 Delete

1. Press the RED button to delete recorded file.
2. Select the OK and press the OK button to complete the delete.
3. Select the EXIT and press the OK button to cancel the delete.

### 9.5.3.2 Rename

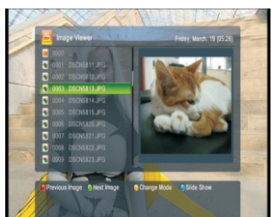
- You can rename recorded file.
1. Select your desired recorded file, and then press the GREEN button.
  2. Move the cursor using the ◀/▶ or ▲/▼ button and press the OK button
  3. If want to save, Move the cursor to OK Icon using the ◀/▶ or ▲/▼ button and press the OK button
  4. Press the Back button to close Rename.

### 9.5.4 MP3 Player ( Optional )



1. Press the MENU button
2. Select the PVR using the ◀/▶ Button.
3. Select MP3 Player using the ▲/▼ button and press the OK button.

### 9.5.5 Image Viewer ( Optional )



1. Press the MENU button
2. Select the PVR using the ◀/▶ Button.
3. Select Image Viewer using the ▲/▼ button and press the OK button.



# 10. Software Upgrade

The HD Receiver has stable and convenience software to use. But, to improve the HD Receiver the new software of the HD Receiver may be released.

Whenever a problem is found or functions are added or modified, the software in the HD Receiver has to be upgraded to enjoy better function.

## 10.1 From a USB memory

If you have a USB memory stick, you can update the firmware from it by performing the following steps:

1. Download a new firmware from the \_\_\_\_\_.
2. Copy the firmware file to your USB memory stick.
3. Insert the USB memory stick into the USB port on the back panel of the digital receiver.
4. Press the MENU button.
5. Select the General Settings using the ◀/▶ Button.
6. Select the System Information using the ▲/▼ button, and press the OK button.
7. Press the RED button.
8. When prompting message is displayed to ask PIN, Enter the PIN using the NUMERICAL (0~9) buttons.
9. Select the USB Update using the ▲/▼ button, and press the OK button to start the software update.

Note >>>

- The Default PIN is 0 0 0 0.
- Your USB memory must be formatted in the FAT file system. Otherwise, the digital receiver cannot recognize your USB memory.

# 11. Troubleshooting Guide

Problem	Solution
<b>About STB</b>	
Does not display any message or the front panel or STB has no power.	<ul style="list-style-type: none"> <li>• Check the main power cable and check that it is plugged into a suitable power outlet.</li> <li>• Check whether STB is in Standby mode.</li> </ul>
No Picture	<ul style="list-style-type: none"> <li>• Ensure that the STB is switched on.</li> <li>• Check the video output port (SCART &amp; RCA jack) is firmly connected to the TV.</li> <li>• Check that you have selected the correct channel or Video Output on your TV.</li> </ul>
Poor picture quality	<ul style="list-style-type: none"> <li>• See “No Picture” above.</li> <li>• Check the signal level. If this is low then try adjusting the alignment of your dish.</li> </ul>
No Sound	<ul style="list-style-type: none"> <li>• See “No Picture” above.</li> <li>• Check the volume level of the TV and STB.</li> <li>• Check the mute status of the TV and STB.</li> </ul>
Remote Control does not operate	<ul style="list-style-type: none"> <li>• Point remote control directly towards the STB.</li> <li>• Check and replace batteries.</li> <li>• Check that nothing blocks the front panel.</li> </ul>
<b>On-Screen Error Message</b>	
No or Bad Signal	<ul style="list-style-type: none"> <li>• Check the LNB, replace LNB if necessary.</li> <li>• Check the cable from the LNB.</li> <li>• Check the position of the dish, realign dish if necessary.</li> <li>• If you are using a DiSEqC 1.0, check that you have connected the LNBs to the correct connections on the switch.</li> <li>• Check the “Signal Level” and Signal Quality” .</li> </ul>

Service Search	
No Signal	<ul style="list-style-type: none"> <li>• See “No or Bad Signal” above.</li> <li>• Check the LNB, replace LNB if necessary.</li> <li>• Check the cable from the LNB.</li> <li>• Check the position of the dish, realign dish if necessary.</li> <li>• DiSEqC 1.0               <ul style="list-style-type: none"> <li>- Check that you have connected the LNBs to correct connections on the switch.</li> <li>- Check that you have set the connected Setting in the Installation menu.</li> </ul> </li> <li>• DiSEqC 1.2               <ul style="list-style-type: none"> <li>- Check that you have selected this in the Installation menu.</li> <li>- Check that the dish is aimed at the correct satellite.</li> </ul> </li> </ul>
Time Display	
The front panel does not display the time.	<ul style="list-style-type: none"> <li>• Make sure you have switched on the STB.</li> <li>• Switch the STB on and turn to a service to allow the STB to receive the time sent with the signal by the service provider.</li> <li>• Front panel will only display the time in Standby mode.</li> </ul>
Time displayed on the front panel is incorrect.	<ul style="list-style-type: none"> <li>• Adjust the time in the Time Settings menu.</li> </ul>

## 12. Specifications

Tuner & Channel	
Input Connector	F-type, IEC 169-24, Female
Frequency Range	950 ~ 2150 Mhz
Signal Level	-65 ~ -25 dBm
LNB Power & Polarization	Vertical : +13.5V Horizontal : +18V Current : 500mA Max. Overload Protection
22KHz Tone	Frequency: $22 \pm 4$ kHz Amplitude: $0.6 \pm 0.2$ V
DiSEqC Control	Version 1.0/1.1/1.2 Compatible, USALS
Demodulation	QPSK, 8PSK
Input Symbol Rate	QPSK : ~ 45MSps 8PSK : ~ 37MSps
FEC mode	DVB-S : Auto, 1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2 : Auto, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
MPEG Transport Stream A/V Decoding	
Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Profile Level	MPEG2 : MP@ML, MP@HL MPEG4 : ASP@L5, w/o QMC, GMC H.264/AVC : HP@L4, MP@L4
Aspect Ratio	4:3, 16:9, Letter Box
Video Resolution	1080i, 720p, 576p, 576i
Audio Decoding	MPEG I/II, MPEG4
Audio Mode	Mono/Stereo

Memory	
Flash Memory	8M byte
Graphic(MPEG) & System DRAM	128M byte
A/V & Data In / Out	
Video	TV-SCART : CVBS, RGB RCA : CVBS, Component HDMI
Audio	Audio L/R, S/PDIF(Fiber-Optic)
USB	USB 2.0 Host (5V, 500mA Max)
Common Interface	2 Common Interface Slot
Smart Card	1 Smart Card Slot
Power Supply	
Input Voltage	12V DC
Type	DC Adaptor
Power consumption	Max. 30W
Physical Specifications	
Size	240mm x 43mm x 155mm
Weight	Approx. 900g
Operating Temperature	0 °C ~ +45 °C
Storage Temperatur	-10 °C ~ +70 °C

# MEMO

**MEMO**

