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Basic  
Information

Getting  
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Basic  
Operations

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Operations

Others

# 1. Safety Information

- Read the USER MANUAL carefully prior to operating this equipment.
- DO NOT open/remove the cover, as there is possible risk of electric shock.
- Do not attempt to service this product by yourself. SERVICE should only be performed by qualified / authorized service personnel.
- ALWAYS disconnect the receiver from power outlet before cleaning.
- Use only a soft dry cloth to clean the case of the receiver.
- Disconnect the unit by removing the power supply when not in regular use.
- Ensure power is OFF before connecting/disconnecting or modifying any cables.
- NEVER use a damaged or inadequate power cord as this may result in fire or electric shock.
- NEVER handle the equipment or the power cord with wet hands.
- NEVER position the receiver on soft furnishings or carpets as this may increase risk of fire.
- This equipment is intended for INDOOR use only.
- Do not use/store the receiver in direct sunlight or near a heater.
- Do not stack other electronic equipment on top of the receiver.
- Do not use any attachments that are not recommended by the manufacturer as this could cause damage to, or impair the operation of the equipment.
- Protect the equipment from possible contact with water or other fluids.
- Allow for adequate ventilation. Do not cover or block ventilation openings with other objects. Ensure a minimum distance of 5 centimeter (5cm) around the receiver for ventilation.
- No naked flame sources, such as lighted candles, should be placed on or near the equipment.
- Dispose of remote control batteries in accordance with local, state or federal regulations.

**General Information:** This manual provides complete instructions for installing and using the receiver. All functions of the receiver can be carried out by using the buttons on the remote control.

**Should any problems arise with the operation of your receiver, refer to the relevant section of this manual or call your local authorized dealer.**

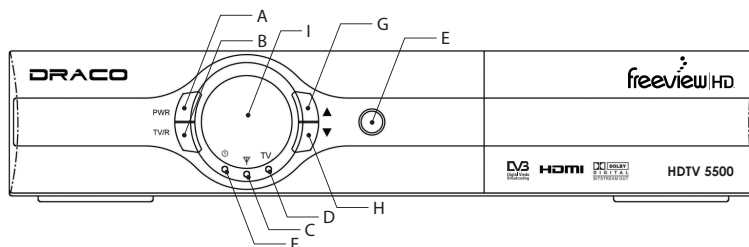
## 2. Accessories Supplied

- User Manual
- Remote Control Unit
- Batteries:2xAAA
- A/V Cable
- Component Cable
- Power Cord

# 3. Features

- MPEG-4 AVC H.264, MPEG2 & Fully DVB Compliant
- MPEG-4 AVC H.264, MPEG2 & Video (MP@HL), MPEG 1 Audio Layer1, 2
- Double Conversion DVB-T Tuner with Loop Through Output
- Frequency Input from 177.5MHz to 858MHz (Centre Frequency)
- Fully DVB-T Compliant to EN300744
- 2k, 8k OFDM Modes
- User-friendly OSD Menu with Full Function
- 256 Colours Graphic User Interface
- OSD Menu Support: English
- Variable Aspect Ratio 4:3 / 16:9 with Pan & Scan or Letter Box
- Advanced 7 days/ 24 Hours EPG (Electronic Program Guide) with "extended" program information
- Current/Next Event Guide
- Auto Update (PMT/ PAT)
- Customized Channels Memory Data
- Carriers & Frequency Table Editing with Add, Delete, Rename, Modify
- Small Screen Picture on EPG and TV Channel List Graphic
- Supports TELETEXT Decoding or Re-insert into VBI
- Supports Subtitle
- Supports PAL
- Advanced Automatic Tuning
- 9 preferred Channel Groups and Parental Lock Function
- 8 Event Timer, 120 minute Sleep Timer
- Channel Editing with delete, Move, Rename, Lock, Skip
- Channel Sorting
- Console (RS 232) Interface for Software Upgrade direct from PC.
- SIGNAL LED Indicator
- S/PDIF (Sony/ Philips Digital Interface) for Digital Audio, RCA & Optical Option
- Wide Range Switching Mode Power Supply (SMPS)
- HDMI Output
- YPrPb Component Output
- Video, Audio L, Audio R Output (RCA), SPDIF output
- S-VIDEO Output
- Support output formats: 1080i, 720p, 576p and 576i

## 4.Front Panel



Basic  
Information

### A. Power Button

Change between NORMAL Mode and STANDBY Mode.

### B. TV/RADIO Button

Select between TV or Radio operation mode.

### C. SIGNAL LED

Lights up with signal locked.

### D. TV/RADIO LED

Lights up when in TV Mode.

### E. Remote SENSOR

Detects infrared signal from Remote Control Unit.

### F. POWER LED

Lights up when in STANDBY Mode.

### G. CH Up Button

Change channel up.

### H. CH Down Button

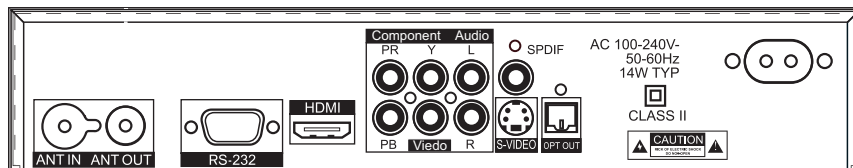
Change channel down.

### I. Led Display

## 5. Rear Panel

6.

Basic  
Information



### ANT IN

Connect to external or indoor antenna.

### ANT OUT

Connect to the TV set or VCR RF input.

### RS-232 Console

Used for set top box software upgrades.

### POWER INLET

Connect this to the mains outlet (100-240V~50-60Hz).

### AUDIO OUT (L/R)

Left, Right audio output

### S/PDIF Out/ OPT OUT

Sony/Philips Digital Interface output for digital audio, optical out option.

### VOU VIDEO

Composite video output.

### S-VIDEO Output

S-VIDEO output connector.

### YPrPb Output

Progressive Component output connector.

### HDMI Output

HDMI output connector.

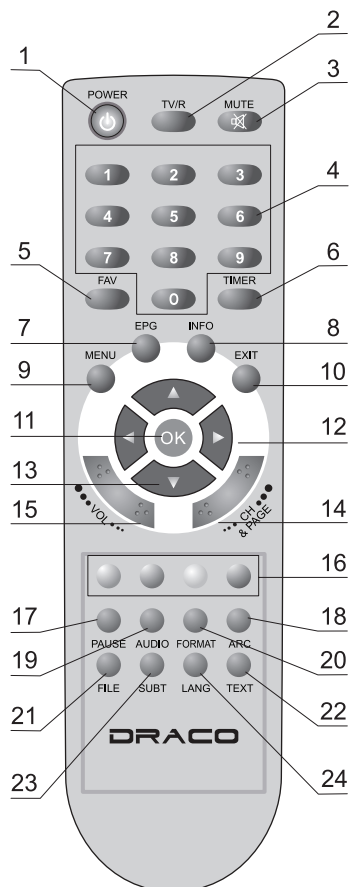
### AC INLET

AC power input.



## 6. Remote Control Unit

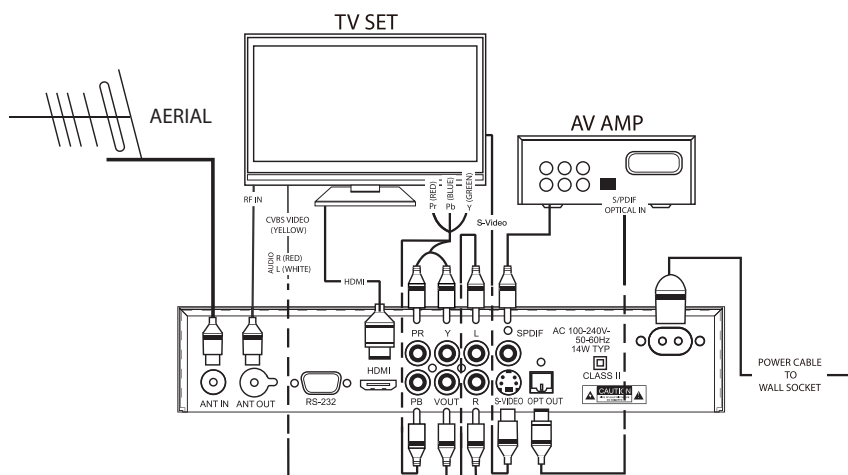
The following details the remote control buttons and their function.



1. POWER
2. TV/R
3. MUTE
4. Numeric Keys (0-9)
5. FAV
6. TIMER
7. EPG
8. INFO
9. MENU
10. EXIT
11. OK
12. LEFT /RIGHT (◀/▶)
13. CH UP/DOWN (▲/▼)
14. CH UP/DOWN (▲/▼)
15. VOL
16. Function Keys  
Red, Yellow, Green, Blue
17. PAUSE
18. ARC
19. AUDIO
20. FORMAT
21. FILE
22. TEXT
23. SUBT
24. LANG

## 7. Connecting to a TV

1. **POWER**  
Turns the Set Top Box On/Off.
2. **TV/R**  
Switches between TV and Radio mode.
3. **MUTE**  
Mute or un-mute the sound.
4. **Numeric Keys (0-9)**  
Used for direct number input
5. **FAV**  
Enter the Favorite Channel List.
6. **Timer**  
Set and display wakeup timers.
7. **EPG**  
Displays the Electronic Program Guide.
8. **INFO**  
Display the program information window.
9. **MENU**  
Enters the Main Menu or returns to previous Menu from a sub Menu.
10. **EXIT**  
Exit from the menu or escape from the current mode.
11. **OK**  
Confirm the choice(s) and selection with the highlighted menu item. While watching TV or listening to radio, pressing the OK button will enter the channel list.
12. **LEFT/RIGHT (◀/▶)**  
Adjusts settings while in menu mode.
13. **UP/DOWN (▲/▼)**  
Moves the cursor up/down while in menu mode.
14. **CH**  
Change channels while in viewing mode.
15. **VOL**  
Changes the volume level in viewing mode.
16. **FUNCTION KEYS**
17. **PAUSE**  
Freeze the current image on screen.
18. **ARC**  
Changes the TV screen ratio.
19. **AUDIO**  
Cycle between audio modes.
20. **FORMAT**  
Cycle between the TV screen resolution.
21. **FILE**
22. **TEXT**  
Display teletext window
23. **SUBT**  
Activate or inactivate subtitle.
24. **LANG**  
Change the language for subtitle.



There are many different types of TV/VCR and other equipment that you can connect to your Set Top Box. Shown below are the most common methods normally used. If you have problems with your connections and need help, contact your retailer.

#### Connecting to the TV via HDMI/YPbPr

This method is recommended for the best picture quality.

*Note: Cables are not supplied with the Set Top Box. Make sure that both the TV and the Set Top Box are switched off at the power outlet.*

- Connect the antenna to the ANT IN of the Set Top Box.
- Connect the ANT OUT of the Set Top Box to the RF input of the TV.
- Connect the HDMI/YPbPr/R+L outputs of the Set Top Box to the inputs of the TV if available.
- Turn on the Set Top Box and the TV.
- Select the HDMI or Component input mode on the TV (refer to TV manual).

#### Optional audio connections

Instead of connecting the Left and Right Audio outputs to your TV, they can be connected to your Hi-Fi stereo for better sound quality. In this case, connect the Left and Right Audio outputs from the Set Top Box to the Left and Right Audio inputs on your Hi-Fi Stereo.

If you have a home theatre receiver with built in Dolby™ digital decoder, then connect the SPDIF output (coaxial or optical) of the digital TV Set Top Box to the SPDIF input of your home theatre receiver.

# 8. Quick Start Guide

Once you have connected the HDTV box to your TV, use the following guide to tune in the local digital TV / radio stations and define the basic HDTV box setting. If you have not yet connected your HDTV box to a TV then please refer to the 'Installation' section. Advanced operations are covered in the 'Main Menu' section.

## 1. Tuning Local Digital TV /Radio Station

### Step 1: Power Up

- Switch on your TV
- Select the appropriate input on your TV to view the HDTV box output signal.
- Switch on your HDTV box.
- The HDTV box will start to boot up and first time start up as shown in Figure 8.1.1

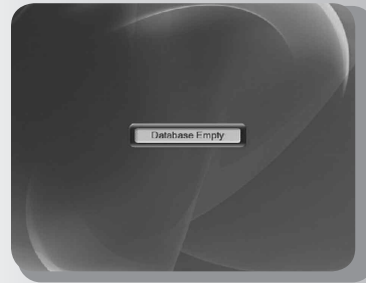


Fig. 8.1.1

### Step2: Auto Tuning Start Up

- Press [▲/▼] button to {Search Mode} as shown in Figure 8.1.2 .
- Press [OK] button to confirm the auto tuning process.

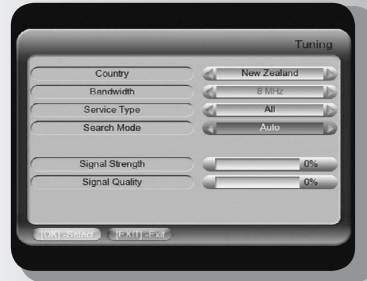


Fig. 8.1.2

### Step3: Auto Channel Detect

- HDTV box searches for the local carrier.
- Wait until the search carrier process completed
- Once carrier detection completed, a message 'Scan Completed' will be shown as in 8.1.3
- Press [OK] to save setting.
- Press [Exit] to start viewing the TV channel.



Fig. 8.1.3

## 2. TV Screen Setup

The default TV resolution is {720p} and the screen ratio is {Auto}. Change the TV resolution or screen ratio, if your TV does not match.



Fig. 8.2.1

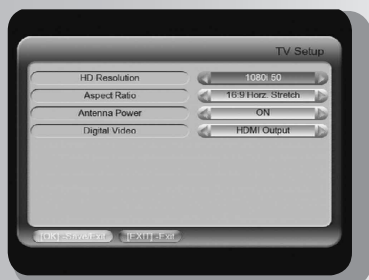


Fig. 8.2.2

### Step 1: TV Setup

- Press [MENU] button to pop up Main Menu
- Press [▲/▼] button to move cursor to {Setup}
- Press [OK]
- Press [▲/▼] button to move cursor to {TV Setup} as shown in Figure 8.2.1
- Press [OK] to go to next screen.

Getting  
Start

### Step 2: Choose TV Screen Resolution

- Press [▲/▼] button to move cursor to {HD Resolution} as shown in Figure 8.2.2.
- Press [◀▶] button to select {1080i} or {720p} or {576p} or {576i} or {Native}.

**Step 3: Choose TV Screen Ratio**

- Press [▲/▼] button to move cursor to {Aspect Ratio} as shown in Figure 8.2.3.
- Press [◀/▶] button to select {4:3 Full Screen} or {4:3 Letterbox} or {16:9 Horz Stretch} or {16:9 Centered} or {16:9 Half Zoom} or {16:9 Full Zoom} or {Auto}

**Step 4: Choose Antenna Power ON /OFF**

- Press [▲/▼] buttons to move cursor to {Antenna Power} as shown in Figure 8.2.4.
- Press [◀/▶] buttons to select {ON} or {OFF}.
- Press [OK] button to save setting.

**Step 5: Set the Digital Video Output**

- Press [▲/▼] button to move cursor to {Digital Video} as shown in Figure 8.2.4.
- Press [◀/▶] button to select between {Auto} or {HDMI Output} or {DVI Output}.
- Press [OK] button to save setting.

Note: You can select {Auto} to initiate hand-shaking/compatibility between the TV set/Display and the Set Top Box digital output (HDMI socket). In the event of an incompatibility in Auto mode, or if an adapter is being used, manually select {HDMI output} or {DVI output} in order to view a High Definition picture on your TV Set/Display. If {DVI Output} is selected or your viewing device does not support HDMI digital audio, you may have to make a separate audio connection between the Set Top Box and display/audio amplifier in order to hear the sound component.

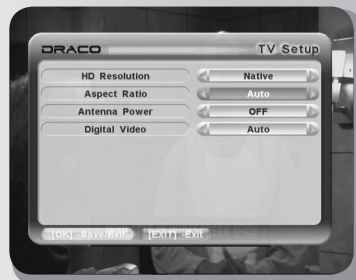


Fig. 8.2.3



Fig. 8.2.4

### 3. Location & Time Offset Set Up

The HDTV box has 8 event timers, to ensure they work properly. The default region is Auckland and timer mode AUTO. If your region is different from Auckland, please select your own region.

#### Step1: Main Menu

- Press [MENU] button to pop up top menu as shown in Figure 8.3.1.
- Press [▲/▼] button to move cursor to {Setup}
- Press [OK] button



Fig. 8.3.1

#### Step 2: Select Time /OSD

- Press [▲/▼] button to move cursor to {Time /OSD} as shown in Figure 8.3.2.
- Press [OK] button

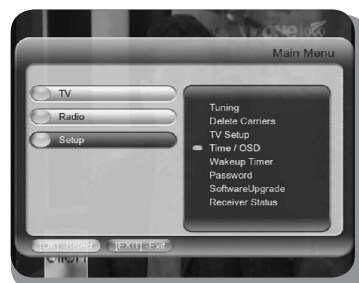


Fig. 8.3.2

Getting  
Start

**Step 3: Choose Auto Timer Mode &  
Select Region**

- Press [▲/▼] button to move cursor to {Timer Mode} as shown in Figure 8.3.3
- Press [◀▶] button to select {Auto}
- Press [▲/▼] button to move cursor to {Region Name} as shown in Figure 8.3.4
- Press [◀▶] button to your region
- Press [OK] button to save setting.
- Press [▲/▼] button to move cursor to {Summer Time}
- Press [◀▶] button to select {On} or {Off}
- Press [OK] button to save setting.
- Press [Exit] button to exit from Main Menu



Fig. 8.3.3



Fig. 8.3.4



## 4. Perform Factory Default

If setting problems or simple failure occurs, please perform Factory Default.



Fig. 8.4.1

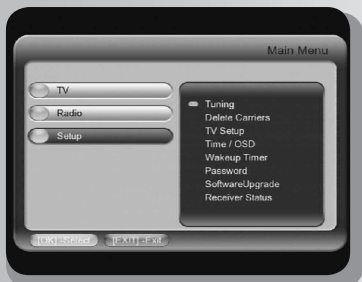


Fig. 8.4.2

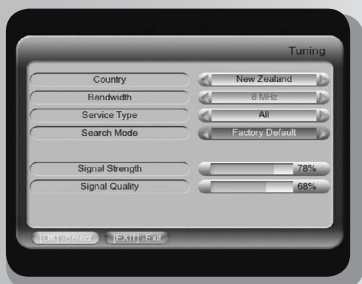


Fig. 8.4.3

- Press [MENU] button to pop up top menu as shown in Figure 8.4.1
- Press [▲/▼] button to move cursor to {Setup}
- Press [OK] button
- Press [▲/▼] button to move cursor and highlight the selection {Tuning} as shown in Figure 8.4.2.
- Press [OK] to enter.
- Press [▲/▼] button to highlight {Search Mode} shown in Figure 8.4.3
- Press [◀/▶] button to cycle to {Factory Default}
- Press [OK] to enter.

## 9. Basic Operations

This Chapter assumed that the HDTV Box has been installed correctly as detailed in the previous section. If the HDTV Box has not been installed or connected properly, please refer to the Chapters Installation & Quick Start Guide.

### 1. Change setting in MHEG5 EPG

- Press [EPG] button to access electronic program guide (MHEG5 EPG).
- Press [▲/▼] button to move the program time forward and backward.
- Press [◀/▶] button to select channel.
- Press [EXIT] button to quit MHEG5 EPG menu.

### 2. Change TV /Radio Channel

- Press [▲/▼] button to change channel up/down,
- or press numeric key [0,1..9] on the remote control directly to input the channel number,
- or press [CH UP/DOWN] buttons on the front panel to change channel up/down.

### 3. Change Volume Level

- Press [◀/▶] button to change volume level up/down.

### 4. Change TV /Radio Operation Mode

- Press [TV/R] button on the remote control or on the front panel to toggle between TV and Radio operation modes.
- The TV/RADIO LED on the front panel will be lighted up when switch to TV mode or RADIO mode.

### 5. Mute the Sound

- Press [Mute] buttons to mute the sound (the audio bar becomes red color) as shown in Figure 9.4.1.
- Press it again to return normal.



Fig. 9.4.1

## 6. Audio Selection

- While watching TV or listening to radio, user may change the audio to left/right channels and different language if available.
- Press [Audio] button on the remote control to pop up Audio selection menu as shown in Figure 9.5.1.
- Press [◀/▶] & [▲/▼] to cycle mono-left, mono-right and stereo channel and other audio track if available.
- Press [OK] to saving the setting.



Fig. 9.5.1

## 7. Electronic Program Guide (MHEG5 EPG)

- User may access the 24 hours / 7days electronic program guide (MHEG5 EPG) if available.
- Press [EPG] button to pop up the TV Guide or Radio Guide depend on TV or Radio mode as shown in Figure 9.6.1.
- Press [▲/▼] buttons to move the program time forward and backward.
- Press [◀/▶] button to select channel. Information should display in the right lower half information window.
- Press [YELLOW] button to display previous day EPG information if available.
- Press [BLUE] button to display next day EPG information if available.
- Press [EPG] button again to display now and next program on each channel.
- Press [OK] to exit from MHEG5 EPG menu.



Fig. 9.6.1

## 8. TV/Radio Channel Information

- Sometimes user may need additional channel information.
- Press [INFO] button 1st information page will pop up, it includes the channel number and channel name, Audio type, channel resolution and output resolution as shown in Figure 9.7.1
- Press [INFO] button again, the 2nd information page will pop up, it includes Program Information, Time, Parental Rating, Program Name and Description, Language Code and Category as shown in Figure 9.7.2.
- Press [INFO] button again, the 3rd information page will pop up, it includes Carrier, Network, Service, Frequency, Bandwidth, Modulation, Hierarchy, Signal Level, Signal Quality, Software Version and other information as shown in Figure 9.7.3.
- Press [EXIT] button to exit from information page.



Fig. 9.7.1



Fig. 9.7.2

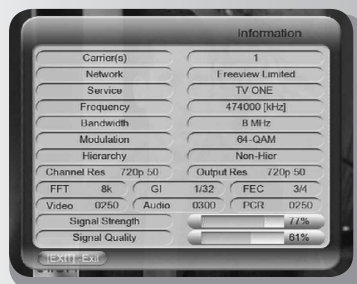


Fig. 9.7.3



Fig. 9.8.1



Fig.9.8.2

## 9. Teletext / TTX Subtitle / Subtitle Function

### Teletext

- The HDTV box supports teletext if available.
- Press [TEXT] button to activate the teletext as shown in Figure 9.8.1.
- Press [0..9] numeric keys to navigate through the teletext pages.
- Press [EXIT] to close teletext or wait for time out.

### Subtitle

- The HDTV box supports subtitles if available.
- Press [Subt] button to activate the Subtitle as shown in Figure 9.8.2.
- Press [◀/▶] button to choose {ON} or {OFF}.
- Press [EXIT] to exit or wait for time out.

## 10. Wake Up Timer

- The HDTV box has 8 wakeup timers for program recording, playback and service wakeup functions.
- Press [MENU] button to pop up Main Menu.
- Press [▲/▼] button to move cursor to [Wakeup Timer] as shown in Figure 9.9.1.
- Press [OK] button.
- Press [▲/▼] & [◀/▶] buttons to move cursor and select the options.
- {Timer No.}: 1~8 Timer
- {Timer Mode}: Cycle Off, ONCE, DAILY, WEEKLY & MONTHLY.
- {Service}: Select program channel.
- {Wakeup Date DD/MM/YYYY}: Press [0..9] numeric keys to input the wakeup date.
- {Start Time}: Press [0..9] numeric keys to input the wakeup time in 24 hours format.
- {Duration}: Press [0..9] numeric keys to input the play time duration.
- Press [OK] button to save the input information for each wakeup timer.

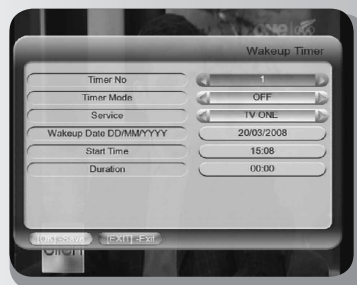


Fig. 9.9.1

## 11. Power ON /OFF

- Press [⊙] button to switch the HDTV box {ON} and {OFF}.

## 10. Main Menu

Press the [MENU] button on remote control to enter the Main Menu as shown in the Figure 10.0.1. The following buttons are used in the menus to allow you to access and change the functions available.



Fig. 10.0.1

Press the [▲/▼] buttons to move the cursor  
Press the [◀/▶] buttons to select or adjust the current setting.  
Press [OK] button to select the item currently highlighted by the cursor, or to save the current setting.  
Press [EXIT] button to leave the current Menu or Sub Menu.

### Sub-menu

{TV} :TV program and related features.  
{Radio} :Radio program and related features.  
{Setup} :HDTV Box system setup.

## 1. TV Menu

- Press [▲/▼] buttons to move cursor and highlight selection {TV Select} or {TV Guide} or {Preference} or {Management} as shown in Figure 10.1.1.
- Press [OK] to enter.

### 1a. TV Select

- Press [▲/▼] buttons to highlight the desire TV channel as shown in Figure 10.1.2.
- Press [OK] button to select.
- Press [EPG] to toggle the channel list between {All} and {By Alphabet}.
- Press [1] button to display 'Favourite' channels.
- Press [2] button to display 'Movie' channels.
- Press [3] button to display 'News' channels.
- Press [4] button to display 'Show' channels.
- Press [5] button to display 'Sports' channels.
- Press [6] button to display 'Kids' channels.
- Press [7] button to display 'Education' channels.
- Press [8] button to display 'Music' channels.
- Press [9] button to display 'Lock' channels.
- Press [0] button to display all channels.



Fig. 10.1.1



Fig. 10.1.2



### 1b. TV Guide

- Press [▲/▼] buttons to highlight the desire TV channel as shown in Figure 10.1.3.
- Press [OK] button to select.
- The select channel will be displayed in the right sub-window.
- The EPG (if available) will be shown in low half window.
- Press [EXIT] to exit the menu.

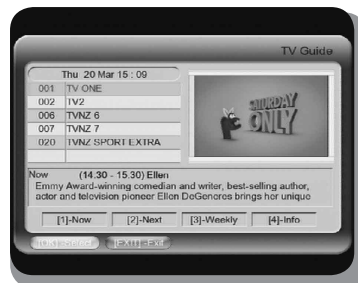


Fig.10.1.3

### 1c. TV Preference

- User can assign the TV channels into different favourite groups.
- Press [▲/▼] buttons to highlight the desire TV channel as shown in Figure 10.1.4.
- Press [1] button to assign as 'Favourite' channel.
- Press [2] button to assign as 'Movie' channel.
- Press [3] button to assign as 'News' channel.
- Press [4] button to assign as 'Show' channel.
- Press [5] button to assign as 'Sports' channel.
- Press [6] button to assign as 'Kids' channel.
- Press [7] button to assign as 'Education' channel.
- Press [8] button to assign as 'Music' channel.
- Press [9] button to skip the channel.
- Press [0] button to lock the channel with password control. The default password is 0000.
- Press [OK] to save and exit the menu.

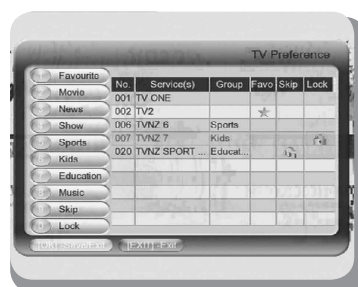


Fig.10.1.4

### 1d. TV Management

- User can delete and rename the TVchannels.
- Press [▲/▼] buttons to highlight the desire TV channel.
- Press [1] button to delete the channel as shown in Figure 10.1.5.
- Press [OK] button to confirm
- Or press [EXIT] to exit from menu.
- Press [2] button to rename the channel, keypad menu will be pop up as shown in Figure 10.1.6.
- Press [VOL] button to delete one character.
- Press [▲/▼ ; ◀/▶] to move cursor.
- Press [OK] to enter one character.
- Press [EXIT] and choose [YES] to confirm and save the string input.
- Press [EXIT] and choose [NO] to exit.
- Press [EXIT] again to exit the menu.

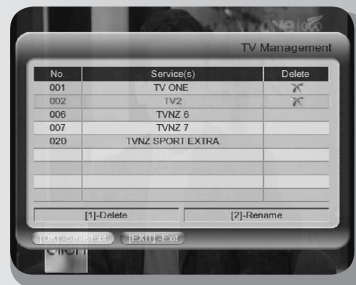


Fig.10.1.5

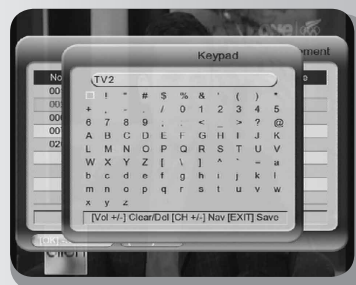


Fig.10.1.6

## 2. Radio Menu

- Press [▲/▼] buttons to move cursor and highlight selection {Radio Select},{Radio Guide},{Preference} and {Management} as shown in Figure 10.2.1.
- Press [OK] to enter.



Fig. 10.2.1



Fig.10.2.2



Fig.10.2.3

### 2a. Radio Select

- Press [▲/▼] buttons to highlight the desire radio channel shown in Figure 10.2.2.
- Press [OK] button to select.
- Press [EPG] to toggle the channel list between {All}and {By Alphabet}.
- Press [1] button to display 'Favourite' channels as shown in Figure 10.2.3.
- Press [2] button to display 'Pop' channels.
- Press [3] button to display 'News' channels.
- Press [4] button to display 'Show' channels.
- Press [5] button to display 'Sports' channels.
- Press [6] button to display 'Kids' channels.
- Press [7] button to display 'Education' channels.
- Press [8] button to display 'Classic' channels.
- Press [9] button to display 'Lock' channels.
- Press [0] button to display all channels.

## 2b. Radio Guide

- Press [▲/▼] buttons to highlight the desire radio channel as shown in Figure 10.2.4.
- Press [OK] button to select.
- The EPG(if available) will be shown in low half window.

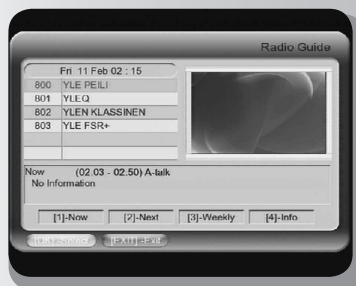


Fig.10.2.4

## 2c. Radio Preference

- User can assign the radio channels into different favourite groups.
- Press [▲/▼] buttons to highlight the desire radio channel as shown in Figure 10.2.5.
- Press [1] button to assign as 'Favourite' channel.
- Press [2] button to assign as 'Pop' channel.
- Press [3] button to assign as 'News' channel.
- Press [4] button to assign as 'Show' channel.
- Press [5] button to assign as 'Sports' channel.
- Press [6] button to assign as 'Kids' channel.
- Press [7] button to assign as 'Education' channel.
- Press [8] button to assign as 'Classic' channel.
- Press [9] button to skip the channel.
- Press [0] button to lock/unlock the channel with password control. The default password is 0000



Fig.10.2.5

## 2d. Radio Management

- User can delete and rename the radio channels.
- Press [▲/▼] buttons to highlight the desire TV channel.
- Press [1] button to delete the channel as shown in Figure 10.2.6.
- Press [OK] button to confirm.
- Or press [EXIT] to exit from menu.
- Press [2] button to rename the channel, keypad menu will be pop up as shown in Figure 10.2.7.
- Press [VOL] button to delete one character.
- Press [▲/▼ ; ◀/▶] to move cursor.
- Press [OK] to enter one character.
- Press [EXIT] and choose [YES] to confirm and save the string input.
- Press [EXIT] and choose [NO] to exit.
- Press [EXIT] again to exit the menu.

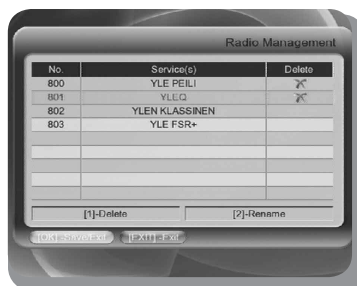


Fig. 10.2.6



Fig.10.2.7

### 3. Setup Menu

- Press [▲/▼] buttons to move cursor and highlight the selection {Tuning} or {Delete Carrier} or {TV Setup} or {Time/OSD} or {Wakeup Timer} or {Password} or {Software Upgrade} as shown in Figure 103.1.
- Press [OK] to enter.



Fig.10.3.1

#### 3a. Tuning Menu

- Press [▲/▼] buttons to highlight the items you want to change shown in Figure 10.3.2.

##### Country

- Press [◀/▶] & [▲/▼] buttons to select the country, press [OK] to confirm.

##### Service Type

- Press [◀/▶] buttons to cycle {ALL}, {FTA}, {TV Only} & {FTA TV Only}; where default selection is {FTA}.

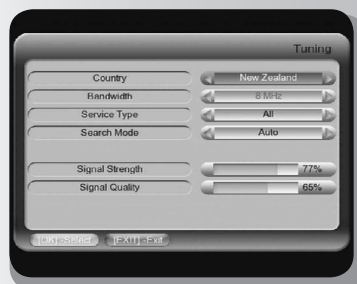


Fig.10.3.2

##### Search Mode / Default

- Press [◀/▶] buttons to cycle {Auto Detect}, {Manual}, {Auto}, {Preset Services}, {Factory Default}, {Carrier Edit} and {Auto Edit}; where default selection is {Auto Detect}.
- Press [OK] to execute.
- Press [Exit] to exit.
- {Auto Detect}: Default selection, the HDTV boxes will automatically detect all the local carriers and the associated program channels. Please refer to quick start guide.
- {Manual}: User may input the frequency channel for program channel detection.
- {Auto}: Auto scan will be carried out and the associated programs/channels will be detected.
- {Preset Services}: Several channel information maybe pre-stored when the HDTV boxes are shipped, use this option for special application only.
- {Factory Default}: When the HDTV box goes into an unknown state, user may preform the factory default to reset the unit.
- {Carrier Edit}: To edit the frequency of the carrier.
- {Auto Edit}: To scan the carrier/channels.



Fig. 10.3.3



Fig.10.3.4



Fig.10.3.5

### 3b. Delete Carriers

- Press [▲/▼] button to highlight the carrier as shown in Figure 10.3.3.
- Press [1] button to delete carrier, multiple carriers can be selected. Press [OK] to save the change.
- Press [2] button to rename the carrier. Keypad menu will pop up as show in Figure 10.3.4.
- Press [▲/▼ ; ◀/▶] to select the correct string.
- Press [VOL] button to delete one character.
- Press [OK] to enter one character.
- Press [EXIT] and choose [YES] to confirm and save the string input.
- Press [EXIT] and choose [NO] to exit.
- Press [EXIT] again to exit the menu.

### 3c. TV Setup Menu

The default TV resolution is {720p} and the screen ratio is {Auto}. Change the TV resolution or screen ratio, if your TV does not match.

#### Step 1: TV Setup

- Press [MENU] button to pop up Main Menu
- Press [▲/▼] button to move cursor to {Setup}
- Press [OK]
- Press [▲/▼] button to move cursor to {TV Setup} as shown in Figure 10.3.5.
- Press [OK] to go to next Screen.

**Step 2: Choose TV Screen Resolution**

- Press [▲/▼] button to move cursor to {HD Resolution} as shown in Figure 10.3.6.
- Press [◀/▶] button to select {1080i} or {720p} or {576p} or {576i} or {Native}.



Fig.10.3.6

**Step 3: Choose TV Screen Ratio**

- Press [▲/▼] button to move cursor to {Aspect Ratio} as shown in Figure 10.3.7.
- Press [◀/▶] button to select {4:3Full Screen} or {4:3Letterbox} or {16:9Horz Stretch} or {16:9 Centered} or {16:9Half zoom} or {16:9Fullzoom} or {Auto}
- Press [OK] button to save setting.

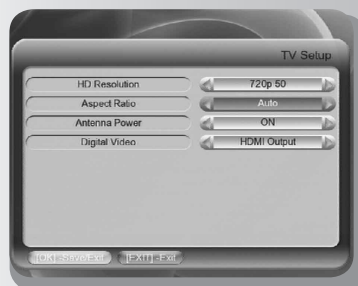


Fig.10.3.7



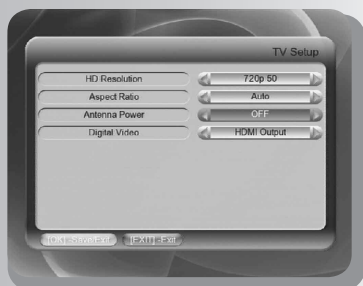


Fig. 10.3.8

#### Step 4: Antenna Power

If you need to power up a 5V (50mA Max) active antenna, you may switch on the power supply of the ANT IN input.

- Press [▲/▼] buttons to move cursor to {Antenna Power} as shown in Figure 10.3.8.
- Press [◀/▶] buttons to select {ON} or {OFF} depends if you need to power up 5V antenna output.



Fig.10.3.9

#### 3d. Time/OSD Menu

- Press [▲/▼] button to move cursor to {Time /OSD} as shown in Figure 10.3.9.
- Press [OK]button

**Step 1: Choose Auto Timer Mode & Select Region**

- Press [▲/▼] button to move cursor to {Timer Mode} as shown in Figure 10.3.10.
- Press [◀/▶] button to select {Auto}
- Press [▲/▼] button to move cursor to {Region Name} as shown in Figure 10.3.11.
- Press [◀/▶] button to your region
- Press [OK] button to save setting.
- Press [Exit] button to exit from Main Menu



Fig.10.3.10

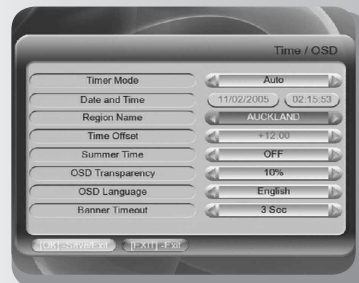


Fig.10.3.11

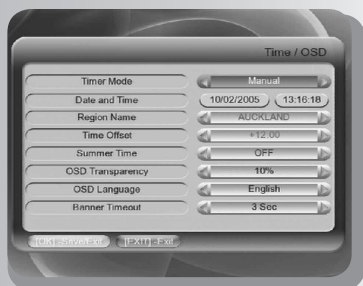


Fig.10.3.12

### Step 2: Choose Manual Timer Mode & Select Region

- Press [▲/▼] button to move cursor to {Timer Mode} as shown in Figure 10.3.12.
- Press [◀/▶] button to select {Manual}
- Press [▲/▼] button to move cursor to {Date and Time} as shown in Figure 10.3.13.
- Press [▲/▼] button to move cursor to {Date and Time} as shown in Figure 10.3.13.
- Press [◀/▶] and [▲/▼] to set the correct Date and Time.
- Press [OK] button to save setting.
- Press [Exit] button to exit from Main Menu



Fig.10.3.13

*Note: The line "Time Offset" will be adjusted automatically when {Region Name} is selected.*

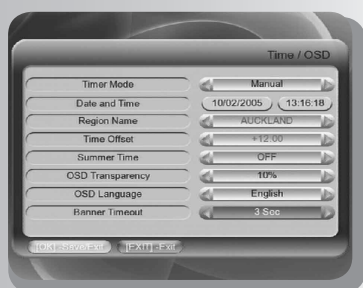


Fig.10.3.14

### Step 3: OSD Transparency

- User may choose the OSD transparency value to make the OSD readable as shown in Figure 10.3.15.
1. Press [◀/▶] buttons to cycle the values {10%}, {20%}, {30%}, {40%} & {50%}, default is {10%}.

### 3e. Wakeup Timer

- The HDTV box has 8 wakeup timers for program recording, playback and service wakeup functions.
- Press [MENU] button to pop up Main Menu.
- Press [▲/▼] button to move cursor to {Wakeup Timer} as shown in Figure 10.3.15.
- Press [OK] button.
- Press [▲/▼]&[◀/▶] buttons to move cursor and select the options
- {Timer No}: 1~8 Timer
- {Timer Mode}: Cycle OFF, ONCE, DA|LY, WEEKLY & MONTHLY.
- {Service}: Select program channel.
- {Wakeup Date DD/MM/YYYY}: Press [0...9] numeric keys to input the wakeup date.
- {Start Time}: Press [0...9] numeric keys to input the wakeup time in 24 hours format.
- {Duration}: Press [0...9] numeric keys to input the play time duration.
- Press [OK] button to save the input information for each wakeup timer.



Fig.10.3.15



Fig.10.3.16

### 3f. Password Setup

- User may change the password any time.
- Press [0...9] numeric keys to input the old password, and the new password twice.
- Press [EXIT] to leave the menu.
- Default Password 0000

### 3g. Software Upgrade

(Optional for some models)

# 11. Trouble Shooting

If you experience difficulty when operating the HDTV set top box, check the following items before calling for service.

If you can't solve the problem even after referring this troubleshooting guide, please call the customer support hotline.

PROBLEM	SOLUTION
The indicators on the front panel do not illuminate	Check that the power cable is plugged into the wall outlet, and the wall outlet is switched on. Check that power is available from the wall outlet using a portable desk lamp or other portable appliance.
Cannot Tune Channel	Check that the antenna is correctly connected to the HDTV box. Reset to factory default then auto tune for channel searching.
No Picture	Ensure the HDTV Box is switched on. Check the A/V and/or RF connections between the HDTV box and the TV. Check that the TV is switched on and set up properly. Check that if you have selected the correct channel or A/V input on your TV. Check that the antenna is correctly connected to the HDTV box.
No Sound	Check the volume level of the TV & HDTV box. Check the A/V and/or RF connections between the HDTV box & TV. Check the MUTE status of the TV & HDTV box
Remote Control Not Operate	Point Remote Control directly towards the HDTV box. Check and replace batteries if necessary.
No or Bad Signal	Check the antenna cable to the HDTV box for damage or loose connections. Set the country correctly in the Tuning menu. Check the position of the antenna - realign antenna if necessary. Check for interference from any other devices connected between antenna and the HDTV box. Check the "Signal" & "Quality" in the information window.
Forget PIN Code	Contact the HDTV box service agent in order to reset the HDTV box. Default password "0000"

# 12. Technical Specification

## - Tuner & Demodulator

Input Frequency	: 470MHz to 860MHz
Input Power Range	: -80 to -35dBm
Input Connector	: IEC Female, 75ohm
Output Connector	: IEC Male, 75ohm
IF Bandwidth (IF BW)	: 8MHz
Center Frequency	: 36MHz
Demodulation	: COFDM
FEC	: AUTO, 1/2, 2/3, 3/4, 5/6, 7/8
Mode (FFT)	: 2k, 8k
Constellations	: QPSK, 16QAM, 64QAM
Hierarchy Mode	: No-Hierarchical, Hierarchical
Guard Intervals	: 1/4, 1/8, 1/16, 1/32
Symbol Rate, MS/s	: 31.67 (IF BW=8MHz)
Eb/No performance	: exceeds DVB rec.

## - Video Decode

Decoding	: MPEG-4 AVC H.264, MPEG-2 MP@HL, MPEG-2 MP@ML, ISO/IEC 13818-2, 11172-2
Date Rate	: Max 15Mbit/s
TV Standard	: PAL BG/I/DK
Aspect Ratio	: 4:3, 16:9
Video Format	: 1080i, 720p, 576p, 576i
Output Level	: 1Vpp +/-10%

## - Audio Decode

Decoding	: ISO/IEC 11172-3 MPEG 1 Layer I & II, ISO/IEC 13818-3 MPEG 2 Layer I & II, Dolby Digital AC3 2 channels, MPEG-4 HE AAC
Sampling Frequency	: 32, 44.1, 48KHz
Peak Output Level	: 2.0Vrms into 600 ohm
Audio Mode	: Stereo, Dual Channel, Joint Stereo, Mono-L, Mono-R

### **- A/V & Data Port**

Component Output	: YPrPb progressive component output
HDMI Output	: HDMI video & audio output
Video Output	: CVBS/RCA connector
S-Video Output	: Y/C Mini-PIN connector
Audio R/L	: RCA Audio L & R
SPDIF	: RCA coaxial and optical SPDIF for Doblly, AC3, MPEG BitStream, MPEG-4 HE AAC
RS232 Data Port	: Transfer rate 115,200bps, 9 pin D-sub Male

### **- Front Panel Display**

4 Keys	: Power, TV/Radio, Channel Up, Channel Down
Power LED (RED)	: Light up when in Standby mode
Signal LED (AMBER)	: Light up when signal locked
TV/Radio LED (Green)	: Light up when in TV mode

### **- Power Supply**

Input Voltage	: 100 to 240Vac
Input Frequency	: 50/60 Hz
Input Rating	: 1.0A maximum
Power Consumption	: Typical 14W
Operating Temperature	: 0 to 40C
Storage Temperature	: -10 to 65C

### **- Weight & Dimension**

Weight	: 1.5kg approx
Dimension	: 255(W) x 206 (D) x 50 (H) mm

# 13. Glossary

## **APID**

Audio Packet Identifier

## **BER**

Bit Error Rate. Used as a measure of the digital signal quality

## **DVR**

Digital video recorder

## **Electronic Program Guide (EPG)**

An EPG is the electronic version of a printed program guide

## **Forward Error Correction (FEC)**

A system of error control for data transmission

## **Frequency**

The number of cycles or events per one second, which is expressed in the unit of Hertz (Hz)

## **FTA**

Free To Air

## **kHz**

kilohertz - The prefix kilo means thousand, i.e. 1,000Hz

## **MHZ**

Megahertz - The prefix mega means million, i.e. 1,000,000Hz

## **MPEG**

Moving Picture Experts Group. Established by the International Standards Organization, which has and continues to develop Standards for digital compressed moving pictures and associated audio.

## **OSD**

On Screen Display

## **Packet Identifier (PID)**

A unique integer value used to identify elementary streams of a program in a single or multi-program MPEG-2stream



**PAL, NTSC and SECAM**

Standards for encoding colour in an analogue TV signal

**PCR**

Program Clock Reference

**Symbol Rate**

Speed of the digital package transmission

**SPDIF**

Sony/Philips digital interface format. Digital audio output.

**Ultra High Frequency (UHF)**

A defined frequency range of Radio frequency for TV broadcasting

**VPID**

Video Packet Identifier



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The Menu structure and Specifications may change without prior notice.  
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