USER MANUAL

HDTR-201
HIGH DEFINITION
SET TOP RECEIVER

IKUSI

Content

1. Safety Information

We at IKUSI take a lot of care in putting together this manual. Read it carefully and make sure you understand the contents fully. For your safety, heed the warnings.

- Do not open the cover. It is dangerous to touch any of the internal parts of the receiver due to possible electric shock hazard.
- Do not attempt to service this product by yourself. Refer all servicing to qualified service personnel.
- Disconnect the receiver from the wall outlet before cleaning it. Use only a soft dry cloth to clean the case of the receiver.
- When the receiver is unused for a long time or during a thunder storm, please unplug the power cord from the wall outlet and disconnect the antenna lead.
- Do not connect or modify cables when the receiver is plugged-in. Power off the receiver at the wall outlet before connecting or disconnecting any cables.
- Do not use a damaged power cord. Damaged power cords may cause a fire or an electric shock.
- Do not touch a power cord with wet hands. It may cause an electric shock.
- Never stand the receiver on soft furnishings or carpets.
- This product is designed for indoor use only.
- Do not use or store the receiver where it is exposed to direct sunlight or near a heater.
- Never stack other electronic equipment on top of the receiver.
- Do not use any attachments that are not recommended by the manufacturer as these may cause hazards or damage the equipment.
- Do not expose the receiver to any liquid dripping or splashing.
- Do not place objects filled with liquids, such as vases, on the receiver.
- The ventilation vents should not be impeded by covering them with items, such as newspapers, tablecloths, curtains etc.
- Ensure a minimum distance of 5 centimetres (5cm.) around the receiver for sufficient ventilation.
- No naked flame sources, such as lit candles, should be placed on the apparatus.
- Dispose of remote control batteries properly 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 using the buttons on the remote control.

If you have any problems with the operation of your receiver, please refer to the relevant section of this manual or call your dealer.

2. Accessories Supplied

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

3. Features

- MPEG-2 & Fully DVB-T Compliant

- MPEG2 Video (MP@HL), MPEG-1 Audio Layer1, 2

- Automatic parameter discovery & update

- User-friendly OSD Menu with Full Function

- 256 Colours Graphic User Interface

- OSD Menu Support: English, Chinese Traditional and Chinese Simplified

- Variable Aspect Ratio 4:3 / 16:9

- 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

- Advanced Automatic Tuning

- Favourites Channel Groups and Parental Lock Function

- Event Timer, 120 minutes Sleep Timer

- Channel Editing with Delete, Rename, Lock, Skip

- Channel Sorting

- Console (RS232) Interface for Software Upgrading via PC directly

- SIGNAL LED Indicator

- S/PDIF (Digital Interface) for digital audio, RCA & Optical Option

- Wide Range Switch Mode Power Supply (SMPS)

- HDMI Output

- YPbPr 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

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

Light up when in TV Mode.

E. Remote SENSOR

Detects infrared signal from Remote Control Unit.
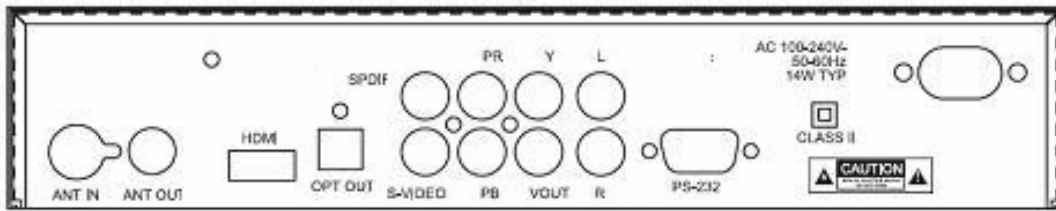
F. POWER LED

Lights up when in STANDBY Mode.

G. CH Up Button

Change channel up.

H. CH Down Button

Change channel down.

5.Rear Panel

ANT IN

Connect to external or indoor antenna.

ANT OUT

Connect to the TV set or VCR RF input.

HDMI Output

HDMI output connector.

S/PDIF Out/ OPT OUT

Digital Interface output for digital audio, optical out option.

S-VIDEO Output

S-VIDEO output connector.

YPbPr Output

Progressive Component output connector.

VOUT VIDEO

Composite video output.

AUDIO OUT (L/R)
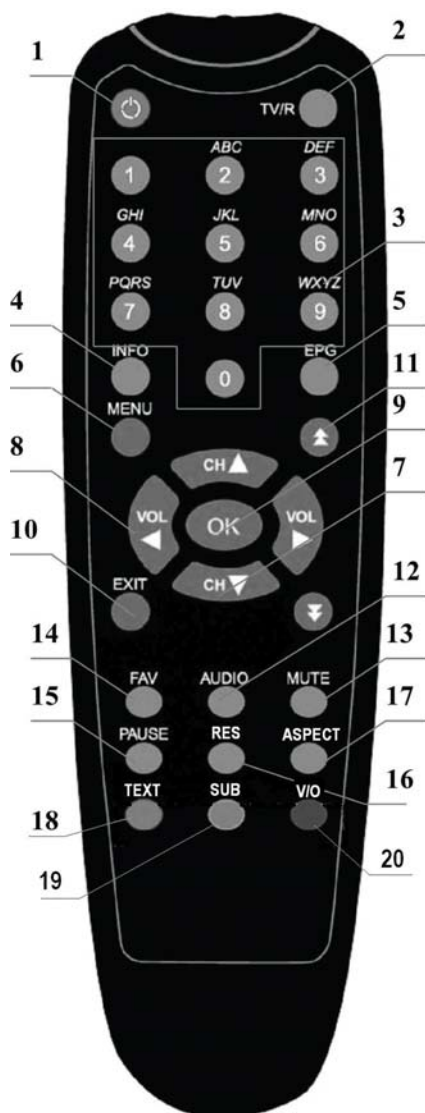
Left, Right audio output

RS-232 Console

Used for set top box software upgrades.

AC INLET

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

6. Remote Control Unit

The following details the remote control buttons and their function.

1. POWER
   Turns the HDTV Box ON/OFF
2. TV/Radio
   Switches b/w. TV & Radio mode
3. Numeric Keys(0……9)
   Used for Direct number input
4. INFO
   Displays the program information window
5. EPG
   Displays the Electronic Program Guide
6. MENU
   Enters Main Menu or returns to previous Menu from a Sub-Menu.
7. CH UP/DOWN(⋏/⋎)
   Changes Channels while in viewing mode and moves the cursor while in menu mode.
8. VOL LEFT/RIGHT(⋖/⋗)
   Changes the Volume level in viewing mode and adjusts setting while in menu mode.
9. OK
   Confirms the selection with the highlighted menu item. While watching TV or listening to radio, press the OK button will enter the channel list
10. EXIT
    Exit from the menu or current mode.
11. PG UP/DOWN
    Move to the next or previous list / text page.
12. AUDIO
    Cycle between the audio modes
13. MUTE
    Mute or un-mute the sound
14. FAV
    Enter the Favourite Channel List
15. PAUSE
    Freeze the current image on screen
16. RES (Blue button)
    Select TV Resolution
17. ASPECT
    Selects Aspect Ratio 4:3 , 16:9 , Auto
18. TEXT (Red button)
    Activate Teletext function
19. SUB (Yellow button)
    To Activate Subtitle
20. V/O (Green button)
    Use to select Video output

   Note: Coloured buttons used in Teletext mode to navigate the different menus.

7. Connecting to a TV
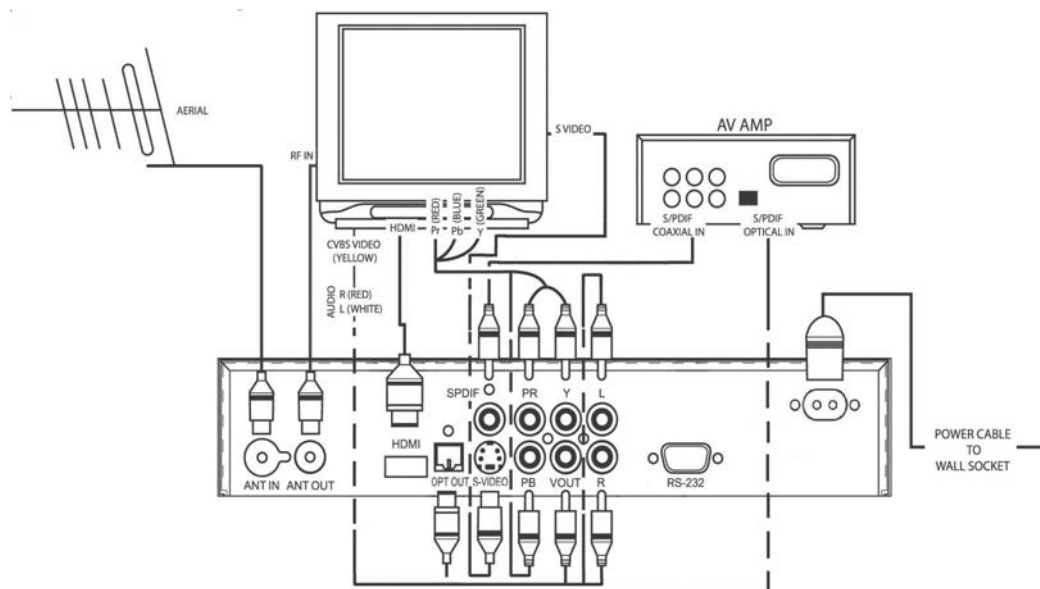
There are several types of TV/VCR and other equipment that you can connect to your Set Top Box. Shown above is the most common method normally used. If you have problems with your connections and need help, contact your retailer or antenna installer.

Connecting to the TV via HDMI/ YPbPr

This method is recommended for the best picture quality.
Note: HDMI Cable is 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, before making any connections.
-	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 (optional if you want to receive analogue TV services).
-	Connect the HDMI or YPbPr and 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 TV (refer to TV manual) if you want to utilize this mode of connection

Optional audio connections

Instead of connecting the Left and Right Audio outputs to your TV, they can be connected to your HIFI 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 HIFI Stereo
If you have a home theatre receiver with built in Dolby TM 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

Step1: 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 for the first time start up, the Main Menu will appear.

Step2: Auto Tuning Start Up

- Press [CH +/-,⋀/⋁]button to select Setup, and press OK
- Tuning selection will be highlighted as shown in Figure 8.1.2.
- Press [OK] to select and the Tuning Menu will appear.
- 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 is completed

- Once carrier detection completed, a message 'Scan Completed' will be shown as
     in 8.1.3

- Press [OK] to save setting.

- Press [Exit] button to exit each menu and top start viewing the TV channel.

Fig.8.1.3

2. TV Screen Setup

The default TV resolution is (1080i) and the screen ratio is (Auto). Change the TV resolution or screen ratio if your TV is not capable of delivering this resolution.

Step1: TV Set up

- Press [MENU] button to pop up Main Menu

- Press [CH +/-,⋏/⋎] button to move cursor to [Setup]

- Press [OK]

- Press [CH +/-,⋏/⋎] button to move cursor to [TV Setup] as shown in Figure 8.2.1
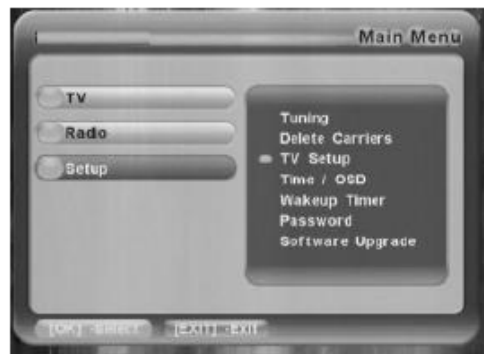
- Press [OK] to go to next screen

Fig 8.2.1

Step2: Choose TV Screen Resolution

- Press [CH +/-,⋏/⋎] button to move cursor to [HD Resolution] as shown in Figure 8.2.2

- Press [VOL +/-,⋖/⋗] button to select [1080i] or [720p] or [576p] or [Native].

Fig 8.2.2

Step3: Choose TV Screen Ratio

• Press [CH +/-,⋀/⋎] button to move cursor to {Aspect Ratio} as shown in Figure 8.2.3.

• Press [VOL +/-,◀/▶] 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}

• Press [OK] button to save setting.

Fig 8.2.3

Step4: Set the Video Output

• Press [CH +/-,⋀/⋎] button to move cursor to [Digital Video]

• Press [VOL +/-,◀/▶] button to select between [Auto] or [HDMI Output].

• Press [OK] button to save setting.

Note: You can select {Auto} to initiate hand shaking/ compatibility between your TV set / Display and the HD Set Top Box Digital output (HDMI socket). In the event of an incompatibility of no picture or no sound in Auto mode, or if an adapter is being used, manually select [HDMI] in order to view a High Definition picture on your TV Set/ Display

3. Location & Time Offset Set Up

The HDTV box has 8-event timers and to ensure they work properly the correct Time information needs to be set. The default region is "Victoria" and time mode is "Auto". If your region is different from Victoria, please select your own region. Please set your time according to your local time zone and Daylight Saving Time On / Off as required.

Step1: Main Menu

- Press [MENU] button to pop up top menu as shown in Figure 8.3.1
- Press [CH +/-,∧/∨] button to move cursor to {Setup}
- Press[OK] button

Fig 8.3.1

STEP2: Select Time/ OSD

- Press [CH +/-,∧/∨] button to move cursor to {Time/OSD} as shown in Figure 8.3.2
- Press [OK] button

Fig 8.3.2

Step3: Choose Auto Timer Mode & Select Region

- Press [CH +/-,⋏/⋎] button to move cursor to {Timer Mode} as shown in Figure 8.3.3
- Press [VOL +/-,◂/▸] button to select {Auto}
- Press [CH +/-,⋏/⋎] button to move cursor to {Region Name} as shown in Figure 8.3.4
- Press [VOL +/-,◂/▸] button to your region
- Press [OK] button to save setting.
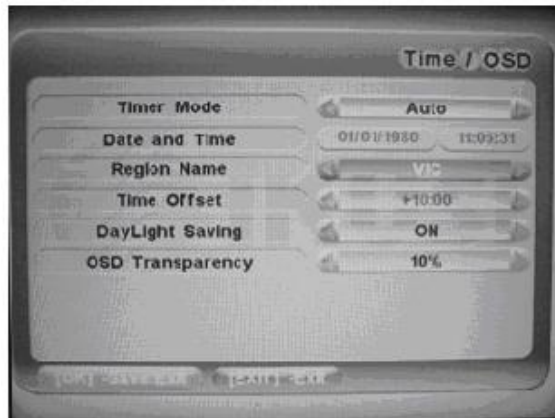- Press [Exit] button to exit from Main Menu

Fig 8.3.3

Fig 8.3.4

4. Perform Factory Reset

If you experience a setting problem (or unknown failure) please perform a Factory Default reset.

- Press [MENU] button to enter Main Menu screen.
- Press [CH +/-,⋀/⋁] button to move cursor to [Setup] as shown in Fig 8.4.1
- Press [OK] button
- Press [CH +/-,⋀/⋁] buttons to move cursor and highlight the selection [Tuning] as shown in Figure 8.4.2
- Press [OK] to enter.
- Press [CH +/-,⋀/⋁] button to highlight [Search Mode] as shown in Fig 8.4.3
- Press [VOL +/-,◂/▸] buttons to cycle to [Factory Default]
- Press [OK] to enter.

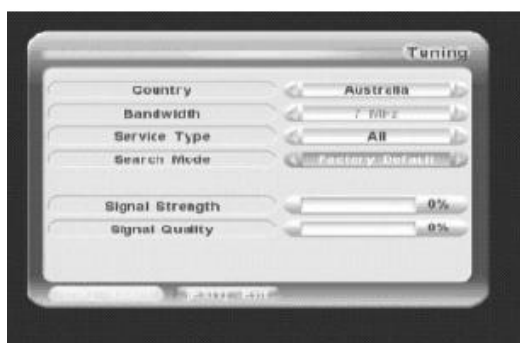

Fig 8.4.1

Fig 8.4.2

Fig 8.4.3

9. Basic Operations

This chapter assumes 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 on installation & Quick Start Guide.

1. Change TV / Radio Channel
- Press [CH +/-,⋀/⋁] 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.

2. Change Volume Level
- Press [VOL +/-,◁/▷] button to change volume level up/ down.

3. 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.

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

Fig 9.4.1

5. Audio Selection

- While watching TV or listening to radio, user may select different audio segments such as left/right channels or different language if available.

- Press [AUDIO] button on the remote control to pop up Audio Selection menu as shown in Fig 9.5.1

- Press [VOL +/-,◂/▸ & CH+/-,▴/▾] to cycle mono-left, mono-right and stereo channel and other audio track if available.

- Press [OK] to save your setting.

Fig 9.5.1

6. Electronic Program Guide [EPG]

- User may access the 24 hours / 7days electronic program guide (EPG) if available.

- Press [EPG] button to pop up the TV guide or Radio guide as shown in Fig 9.6.1.

- Press [CH +/-,▴/▾] buttons to move cursor to desire channel.

- Press [OK] button to select channel. Information should display in the lower half information window.

- Press [1] button to display current EPG information if available, as shown in the Fig 9.6.1

- Press [2] button to display next program EPG information, if available.

- Press [3] button to display weekly EPG information, if available

- Press [4] button to switch between lower half information window and channel list when in lower half window, use [CH +/-, ▴/▾] button to scroll EPG information.

- Press [EXIT] button to exit from EPG menu.

Fig   9.6.1

7. 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, program information and current system time as shown in Figure 9.7.1
- Press [INFO] button again, the 2nd information page will pop up, it includes the Carrier, Network, Service, Frequency, Bandwidth, Modulation, Hierarchy, Signal Level, Signal Quality, Software Version and other information as shown in Figure 9.7.2.
- Press [Exit] button to exit from information page.

Fig 9.7.1

Fig 9.7.2

8. Teletext / Subtitle

1. **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 keypad to navigate to specific pages.
   - [Red, Yellow, Green, Blue] buttons can be used where indicated in Teletext screen menu
   - Press [EXIT] to close Teletext screen.

Pressing [TEXT] button non Teletext channels will automatically select Subtitles, if available.
Press [SUB] button to turn subtitling OFF.

2. **Subtitle**
   - The HDTV box supports subtitles if available.
   - Press [SUB] button to activate the Subtitle as shown in Figure 9.8.2.
   - Press [VOL +/-,◁/▷] button while Subtitle menu is visible to turn [ON] or [OFF]
   - Press [EXIT] to exit from Subtitle menu or wait for time out.
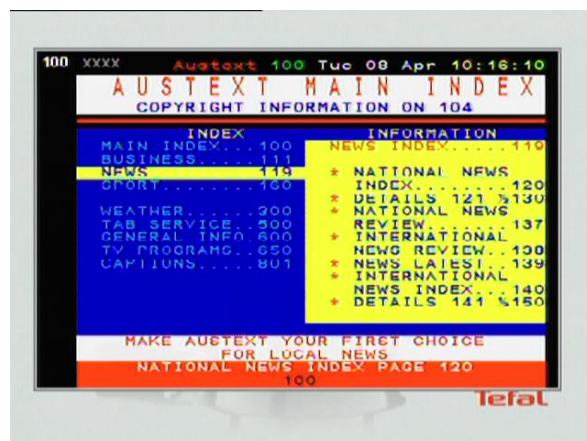

Fig 9.8.1

Fig 9.8.2

9. Wakeup Timer

- The HDTV box has 8 wakeup timers for program ON / OFF functions.
- Press [MENU] button on remote control to enter Main Menu then select Setup.
- Press [CH +/-,⋀/⋁] button to move cursor to [Wakeup Timer].
- Press [OK] button.
- Press [CH +/-,⋀/⋁] & [VOL +/-,◁/▷] buttons to move and select options, see Fig 9.9.1
- [Timer No.]: 1 to 8 Timers
- [Timer Mode]: Cycle OFF, ONCE, DAILY, WEEKLY & MONTHLY.
- [Service]: Select program channel.
- [Wakeup Date DD/MM/YYYY]: Press [0..9] numeric keys to input 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 timer.

Fig .9.9.1

10. 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.

Press the [CH +/-,∧/∨] buttons to move the cursor

Press the [VOL +/-,◁/▷] 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.

Fig 10.0.1

Sub-menu

{TV}:   TV program and related features

{Radio}:   Radio program and related features

{Setup}:   HDTV Box system "Set up"

1. TV Menu

• Press [CH +/-,⅄/⅂] buttons to move cursor and highlight selection {TV Select} or {TV GUIDE} or {Preference} or {Management} as shown in Figure 10.1.1.
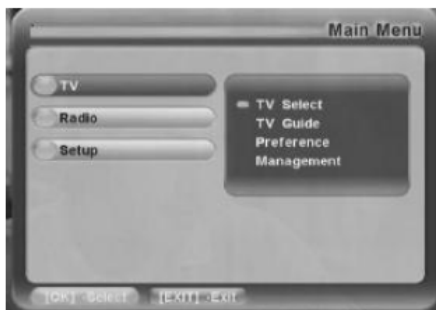
• Press [OK] to enter.

Fig 10.1.1

1a. TV Select

• Press [CH +/-,⅄/⅂] 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' channel.

• Press [2] button to display 'Movie' channel.

• Press [3] button to display 'News' channel.

• Press [4] button to display 'Show' channel.

• Press [5] button to display 'Sports' channel.

• Press [6] button to display 'Kids' channel.

• Press [7] button to display 'Education' channel.

• Press [8] button to display 'Music' channel.

• Press [9] button to display 'Lock' channel.

• Press [0] button to display all channel.

Fig 10.1.2

1b. TV Guide

- Press [CH +/-,⋀/⋁] 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 [CH +/-,⋀/⋁] 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.
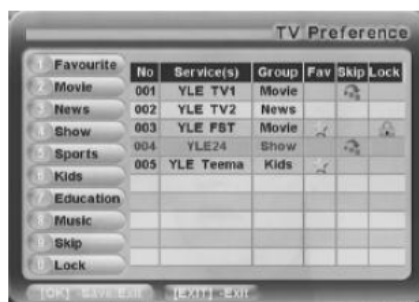- Press [OK] to save and exit the menu.

Fig 10.1.4

1d. TV Management

- User can delete and rename the TV channels.
- Press [CH +/-,⋏/⋎] 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 [F1] button to clear entire string.
- Press [PG-] (Page Down) button to delete one character.
- Press [CH +/-,⋏/⋎; VOL +/-,⋖/⋗] 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.
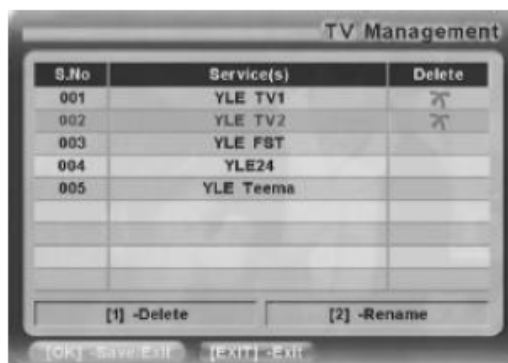- Press [EXIT] again to exit the menu.

Fig 10.1.5

Fig 10.1.6

2. Radio Menu

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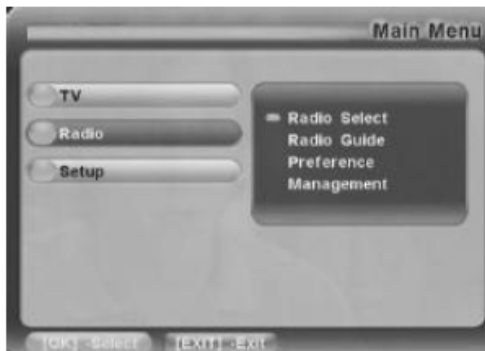
• Press [OK] to enter.

Fig 10.2.1

2a. Radio Select

• Press [CH +/-,⋏/⋎] buttons to highlight the desire radio channel as 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.
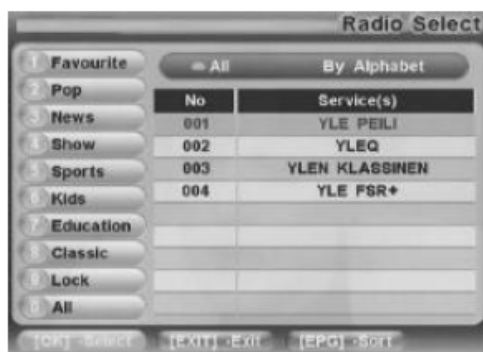

Fig 10.2.2

Fig. 10.2.3

2b. Radio Guide

• Press [CH +/-,⋀/⋎] 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 [CH +/-,⋀/⋎] 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 [CH +/-,⋀/⋎] buttons to highlight the desire radio 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 [F1] button to clear entire string.
- Press [PG-] (Page Down) button to delete one character.
- Press [CH +/-,⋀/⋎; VOL +/-,⋖/⋗] 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 [CH +/-,⋏/⋎] buttons to move cursor and highlight the selection [Tuning] or [Delete Carrier] or [TV Setup] or [Time / OSD] or [Wakeup Timer] or [Password] or [Receiver Status] as shown in Figure 10.3.1.
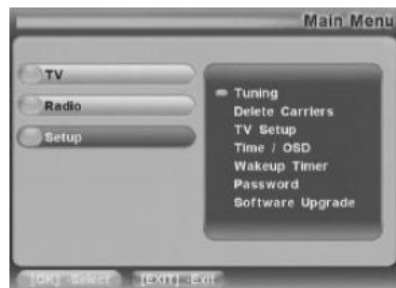
- Press [OK] to enter.

Fig 10.3.1

3a. Tuning Menu

• Press [CH +/-,⋏/⋎] button to highlight the items you want to change shown in Fig 10.3.2.

Fig 10.3.2

Country

• Press [VOL +/-,⋖/⋗] & [CH +/-,⋏/⋎] button to select the country, press [OK] to confirm. Default is Australia.

Service Type

• Press [VOL +/-,⋖/⋗] button to cycle [All], [FTA], [TV Only] & [FTA TV Only]. Default [FTA].

Search Mode / Default

• Press [VOL +/-, ⋖/⋗] button to cycle [Auto], [Manual], [Auto Detect], [Audio Edit], [Carrier Edit], [Factory Default], default selection is [Auto].

• Press [OK] to execute.

• Press [EXIT] to exit.

- [Auto]: Auto scan will be carried out and programs detected.
- [Manual]: User may input the frequency / channel for program detection.
- [Auto Detect]: Select bands to be scanned VHF, UHF, VHF & UHF.
- [Auto Edit]: To select service type to be scanned.
- [Carrier Edit]: To edit the frequency of carrier.
- [Factory Default]: Sets unit back to original Factory default status. All memory cleared.
-

3b. Delete Carriers

• Press [CH +/-,⋏/⋎] 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.

• Press [2] button to rename the carrier. Keypad menu will pop up as show in Fig 10.3.4.

• Press [CH +/-,⋏/⋎; VOL +/-,⋖/⋗] to select correct string.

• Press [Red] button to clear entire string.

• Press [Page Down] button to delete one character.

• Press [OK] to enter one character.

• Press [EXIT] and choose [Yes] to confirm and save the new input string.

• Press [EXIT] and choose [NO] to exit.

• Press [EXIT] again to exit the menu.
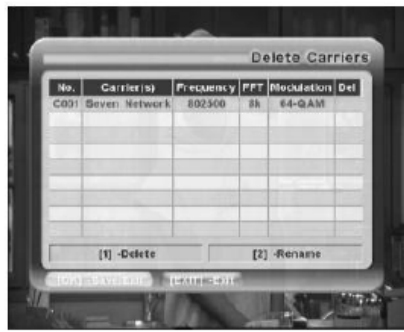
Fig 10.3.3

Fig 10.3.4

3c. TV Setup Menu

The default TV resolution is {1080i} and the screen ratio is {Auto}. Change the TV resolution or screen ratio, if your TV does not match.

Step1: TV Setup

• Press [MENU] button to pop up Main Menu

• Press [CH +/-,∧/∨] button to move cursor to {Setup}

• Press [OK]

• Press [CH +/-,∧/∨] button to move cursor to {TV Setup} as shown in Figure 10.3.5

• Press [OK] to go to next screen

Fig 10.3.5

Step2: Choose TV Screen Resolution

• Press [CH +/-,⋀/⋎] button to move cursor to {HD Resolution} as shown in Figure 10.3.6.

• Press [VOL +/-,◁/▷] button to select {1080i} or {720p} or {576p} or {Native}.

Fig 10.3.6

Step3: Choose TV Screen Ratio

• Press [CH +/-,⋀/⋎] button to move cursor to {Aspect Ratio} as shown in Figure 10.3.7.

• Press [VOL +/-,◁/▷] 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}

• Press [OK] button to save setting.

Fig 10.3.7

3d. Time/ OSD Menu

- Press [CH +/-,⋀/⋎] button to move cursor to {Time/ OSD} as shown in Figure 10.3.9.
- Press [OK] button

Fig 10.3.9

Step1: Choose Auto Timer Mode & Select Region

- Press [CH +/-,⋀/⋎] button to move cursor to [Timer Mode] as shown in Figure 10.3.10.
- Press [VOL +/-,◁/▷] button to select [Auto]
- Press [CH +/-,⋀/⋎] button to move cursor to [Region Name] as shown in Figure 10.3.11.
- Press [VOL +/-,◁/▷] button to select your region, default "Victoria"
- Press [CH +/-,⋀/⋎] button to move cursor to [Daylight Saving]
- Press [VOL +/-,◁/▷] button to select ON or OFF, as required.
- Press [OK] button to save setting.
- Press [EXIT] button to exit from Main Menu

Note: The line "Time Offset" will be adjusted automatically when [Region Name] is selected.
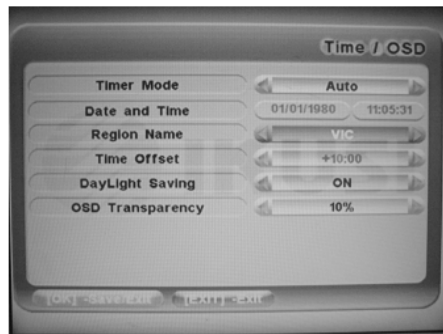
Fig 10.3.10
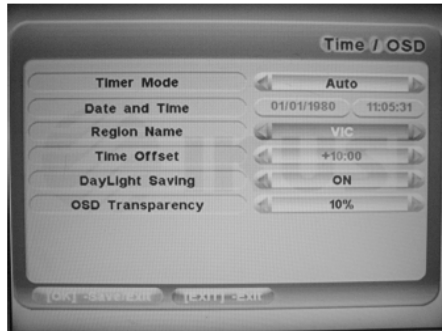
Fig 10.3.11

Step2: Choose Manual Timer Mode & Select Region

• Press [CH +/-,⋀/⋎] button to move cursor to {Timer Mode} as shown in Figure 10.3.12.

• Press [VOL +/-,◄/►] button to select {Manual}

• Press [CH +/-,⋀/⋎] button to move cursor to {Date and Time} as shown in Figure 10.3.13.

• Press [VOL +/-,◄/►] and [CH +/-,⋀/⋎] to set the correct Date and Time.

• Press [OK] button to save setting.

• Press [EXIT] button to exit from Main Menu
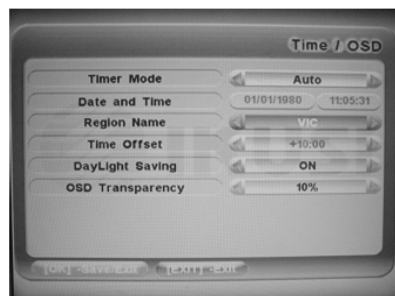
Fig 10.3.12
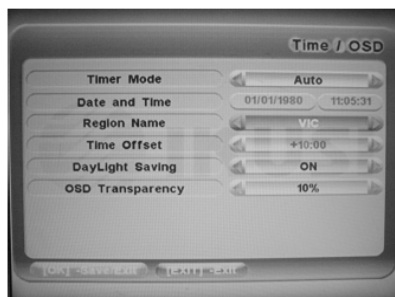
Fig 10.3.13

Step3: On Screen Transparency (OSD)

• User may choose the OSD transparency value to make the OSD readable as shown in Figure 10.3.14.

• Press [VOL +/-,◄/►] buttons to cycle the values 10, 20, 30, 40 & 50%, Default is 10%

Fig 10.3.14

3e. Password Setup

• User may change the password at any time.

• Press [Menu] button and enter Main Menu, and select [Setup] option.

• Now select [Password] option, and press enter.

• Press [0..9] on numeric keypad to enter old password, then the new password twice.

• Press [EXIT] to leave the menu.

• Default password is "0000".

3f. Receiver Status

Displays information on the operational firmware that has been installed in your Set Top Box. This enables you to have a reference if new firmware becomes available in the future.

Fig 10.3.1

11. Specifications:

Tuner & Demodulator

Input Frequency	:	177.5 MHz to 858 MHz (Australia)
Input Power Range	:	-80 to -35 dBm
Input Connector	:	IEC Female, 75 ohm
Output Connector	:	IEC Male, 75 ohm
Demodulation	:	OFDM
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
Code Rates	:	1/2, 2/3, 3/4, 5/6, 7/8
Guard Intervals	:	1/4, 1/8, 1/16, 1/32
Symbol Rate, MS/s	:	4.354 (IF BW=7MHz) to 31.67 (IF BW=88MHz)
Eb / No Performance	:	Exceeds DVB rec.

Video Decode

Decoding	:	MPEG MP@HL, MPEG-2 MP@ML
		ISO/IEC 13818-2, 11172-2
Data Rate	:	Max 15 Mbit/s
TV Standard	:	PAL
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
Sampling Frequency	:	32, 44.1, 48KHz
Peak Output Level	:	2.0 Vrms 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-DIN connector
Audio R / L	:	RCA Audio L & R
SPDIF	:	RCA coaxial and optical SCPIF for Dolby
		AC3, MPEG BitStream
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 (RED0)	:	Light up when in Standby
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
Power Consumption	:	Typical 14W
Operation Temperature	:	0 to 40C

Weight & Dimension

Weight	:	1.5kg approx.
Dimension	:	260 (W) x 210 (D) x 60 (H) mm

12. 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 to 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, and TV are switched on and set up properly.
	Ensure proper connection of the A/V input/HDMI between the HDTV box and the TV.
	Check for the correct channel or AV/input of the TV.
No Sound	Ensure the volume level of the TV & HDTV Box is in proper level.
	Check the AV/ HDMI Connection between HDTV Box and TV
	Check the MUTE status of the TV and HDTV Box
Remote Control Do Not Function	Point Remote Control Directly towards the HDTV Box.
	Check and replace batteries if necessary.
No / Bad Signal	Check for loose connection or damaged cables of the HDTV Box.
	Set the country / location 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 HDTV box.
Forget Pin Code	Perform "Factory Reset" to reset the HDTV Box, and re-scan TV stations. Default password is "0000"

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AUSTRALIA
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High Definition Terrestrial Receiver

HDTR-201

Important- Read this before you proceed.

Thank you for purchasing our new HDTR-201 High Definition Terrestrial Digital Receiver. With several years of experience under our belt, coupled with our extensive expertise ion the field, our new HDTR-201 comes loaded with a great range of features & innovations. This unit comes with HDMI, Component, S-Video and Composite RCA connections. With all these features you are able to connect it to virtually any TV set. We are sure that your will have many years of enjoyment from this High Definition Digital Terrestrial Receiver.

Please be aware that if you live in an apartment building, Digital Channels may not be reticulated on your MATV system. As such, most set top boxes will not deliver their full potential or function properly, for that matter. If you notice this problem, discuss the issue with your Body Corporate before raising a complaint with the store where you purchased the set top box.

You or your Body Corporate personnel are most welcome to contact us directly should you wish to have your MATV system upgraded to Digital. We will certainly be happy to recommend an IKUSI certified Antenna Installation Company to assist you in upgrading your system. Likewise, if you experience severe pixilation or picture drop out problems in a normal household, please feel free contact our Help Desk and we will be happy to assist by putting you in contact with a reputable IKUSI certified specialist from the onset. Please be aware that faulty antenna may cause you severe viewing issues.

Kindly check these matters before lodging a complaint with the store where you purchased this set top box. Above all you need to be aware that small pixilation problems do occur from time to time with Digital signal reception.

IMPORTANT – WARRANTY ISSUES

This product is warranted for a period of 12 months from date of purchase.
Please retain your purchase docket together with this completed sheet, as proof of purchase. If you experience a problem with the device, please return it to the store where you purchased it from, so it can be tested thoroughly, before it is returned to us. All product returned to us should be returned in the original packaging complete with the original accessories. The extent of our warranty covers you for a full replacement HDTR-201 set top box.

Power Surges and Lightning Strikes cannot be covered under warranty

Serial Number: _____

Date of Purchase: _____

Dealer's Name: _____

IKUSI Leaders in RF Headend & Distribution Systems, Optical Headend & Distribution, Project management &Control Systems, Public Information Displays, Industrial Radio and Infra Red Remote Controls.