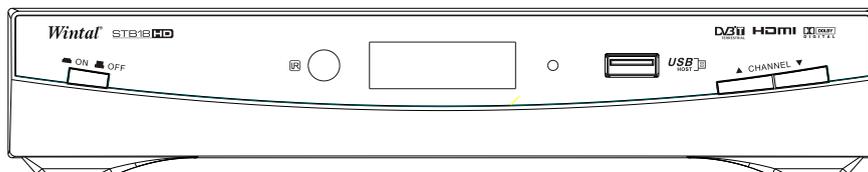


Wintal

User Manual High Definition Digital Set Top Box With Recording Via USB



STB18HD

Please read this User Manual carefully to ensure proper use of this product and keep this manual for future reference.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, install in accordance with the instructions.
- 8) Do not install near any heat sources such as air conditioners, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Ensure mains plug fits correctly in its socket. Poor connection can result in picture interference and potential safety hazards.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Unplug this apparatus and its antenna connections before the approach of lightning storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14) The mains plug is used as the power disconnect device, and the disconnect device shall remain readily operable.
- 15) Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table-cloth, curtains, etc.
- 16) No naked flame sources, such as lighted candles, should be placed on or near the apparatus.
- 17) Your attention is drawn to the environmental aspects of battery disposal.
- 18) This device is not warranted for use in unreasonably hot, cold, or humid environments
- 19) The apparatus shall not be exposed to dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on or near the apparatus.
- 20) This device is designed for indoor, fixed location use only. It must not be used in portable or mobile applications as vibration or excessive forces may cause damage.



This symbol indicates that dangerous voltages constituting a risk of electric shock are present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts. When servicing, use only identical replacement parts.

CAUTION:

If the apparatus has been involved in an electrostatic event, it may malfunction and need to be reset by the user. Remove the mains power lead from the wall socket for several minutes, then re-apply mains power. You may need to re-scan the TV channels and check that any programmed events (eg. PVR recording) have been correctly retained.

WARNING:

When using a USB memory stick with this unit, it should be plugged into the unit directly. USB extension cables or hubs should NOT be used, to avoid data transfer errors or interference caused to TV reception.

WARNING:

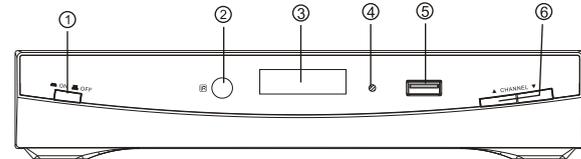
To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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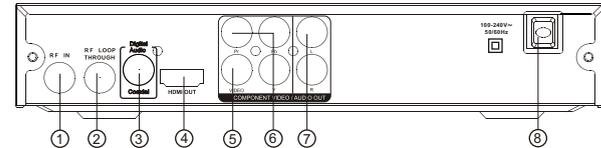
Front and Rear Panel

1. Front panel



- 1 **POWER BUTTON:** Used to turn on/off the main power supply.
- 2 **STANDBY INDICATOR:** Used to visually show power state of the set top box, the LED will turn red if the set top box enters standby mode.
- 3 **LED DISPLAY WINDOW:** Used to display channel number.
- 4 **REMOTE CONTROL SENSOR:** Used to receive the signal from the remote control.
- 5 **USB:** Data input from USB storage devices.
- 6 **CHANNEL UP/DOWN:** Used to change channels without using the remote control.

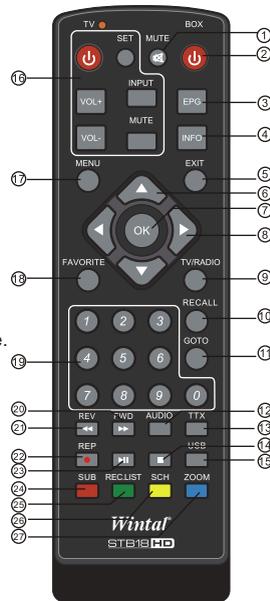
2. Rear panel



- 1 **RF IN:** This socket connects to your external TV antenna.
- 2 **RF LOOP THROUGH:** This socket will feed through the TV RF signal to either your TV or another video system.
- 3 **COAXIAL:** This RCA socket connects to the Coaxial digital audio input socket on your surround sound system.
- 4 **HDMI:** High definition audio and video output used to connect to an HDMI equipped device (eg. flat screen TV).
- 5 **VIDEO:** This RCA socket outputs a composite video signal.
- 6 **COMPONENT VIDEO OUT:** These three RCA sockets connect to your TV component video input terminals.
- 7 **AUDIO L/R:** These RCA sockets output Analog Audio L/R signals.
- 8 **MAINS CABLE:** This is used to connect to your mains power supply.

Remote Control

1. **MUTE:** Mute or Restore Audio Output.
2. **STANDBY:** Switch the product to on or standby.
3. **EPG:** (Electronic Program Guide) Turns on the program guide menu.
4. **INFO:** Displays additional channel or video information.
5. **EXIT:** Exits the current Menu or returns to the previous Menu
6. **UP / DOWN:** Navigates through the Menus. Selects the next or previous Channel.
7. **OK:** Confirms an entry or selection. Displays the list of channels.
8. **RIGHT / LEFT:** Navigates through the Menus. Increases or decreases volume.
9. **TV/RADIO:** Toggle between TV and RADIO mode.
10. **RECALL:** Used to switch between the last two viewed channels.
11. **GOTO:** Selects the play time of media.
12. **AUDIO:** Selects an Audio Language or Audio Mode.
13. **TTX:** Displays Teletext Information.
14. **STOP:** Stops media play.
15. **USB:** Data input from USB storage devices.
16. **LEARNING FUNCTION MANUAL:**
 - (1). Press and hold the (SET) key for 2 seconds, enter the learning mode when the LED turns ON.
 - (2). Press the learning button, you will be in the learning mode when the LED light is blinking.
 - (3). Put two transmitting tube focus at each other with same level in 10 mm distance, press the button of the learnt one for another 1 second, then release it.
 - (4). After learning successful, LED light will keep staying ON after flashed 3 times rapidly. You can choose another button to change the mode.
 - (5). If you want learn other function. repeat step from 2 to 4.
 - (6). Press (SET) button to save and exit learning mode after completion, LED light will turn OFF.
17. **MENU:** Turns on Main Menu.
18. **FAVOURITE:** Turns on Favourite Menu.
19. **0-9 (Numeric Buttons):** Selects a channel or setting.
20. **FWD:** Searches forwards during media playback.
21. **REV:** Searches backwards during media playback.

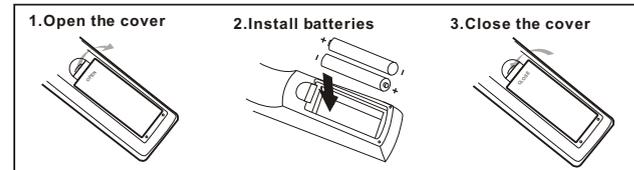


22. **REP/REC:** Selects Repeat or turns off Repeat mode; Used to record the program.
23. **PLAY/PAUSE:** Starts or resumes media playback; Pauses mediaplayback.
24. **SUBTITLE:** Selects Subtitles Language.
25. **REC.LIST:** Displays a list of recorded programs on the currently connected USB drive.
26. **SCH:** Show View/Record schedule list.
27. **ZOOM:** Zoom in or zoom out viewing area.

Installing the Batteries

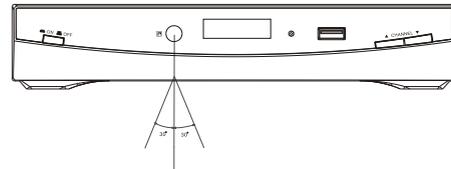
Remove the battery cover from the Remote Control and put 2xAAA size batteries inside the compartment. Alkaline batteries are recommended for longer life.

The diagram inside the Battery Compartment shows the correct way to install the batteries.



Using the Remote Control

To use the Remote Control, point it towards the front of the Digital Set Top Box. The Remote Control has a range of up to 5 metres from the Set Top Box at an angle of up to 60 degrees.



The Remote Control will not operate if the path between it and the Set Top Box is blocked.



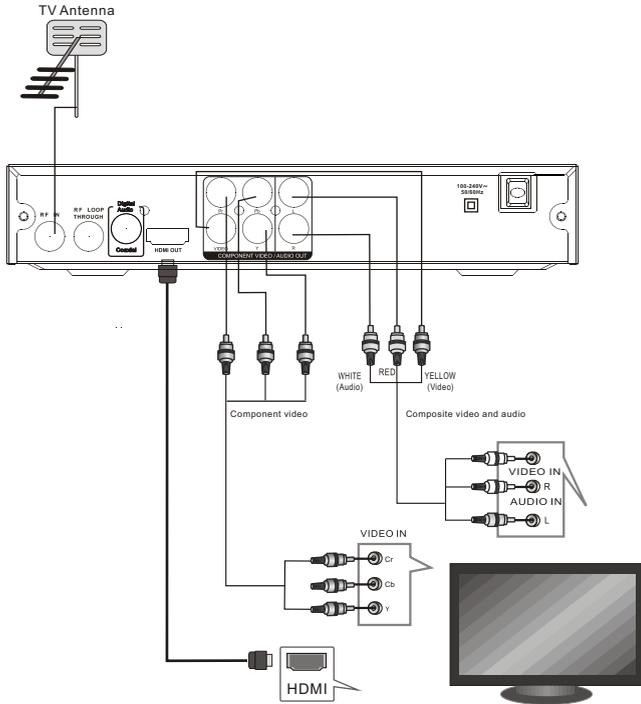
Sunlight or very bright light will decrease the sensitivity and reduce the range of the Remote Control.

Connecting to a Television

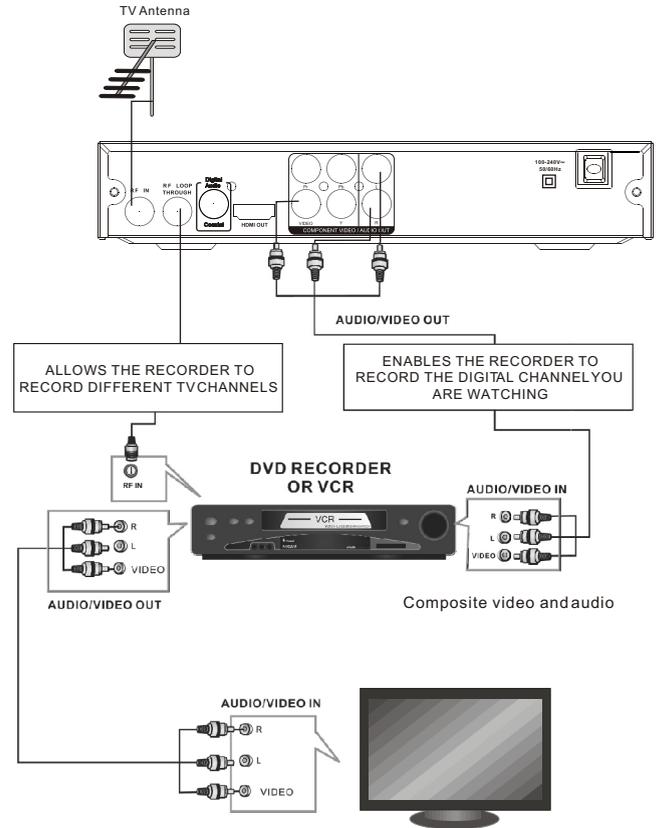
For a basic connection from this Set Top Box to your television, use the Composite video connection outlined below combined with the L/R Audio outputs.

For a higher quality connection, use the Component Video connection outlined below combined with the L/R Audio outputs.

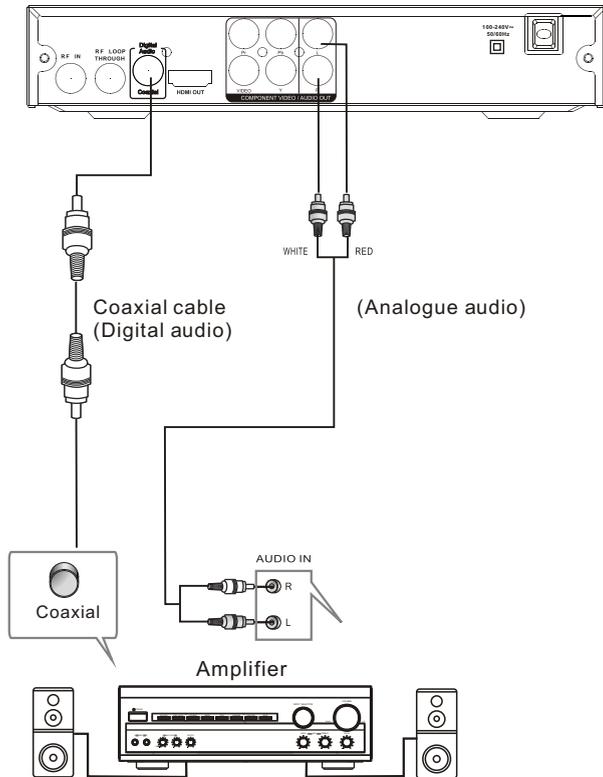
For the highest quality connection use a direct HDMI connection, see below.



Connecting to a DVD Recorder or VCR



Connecting to an Audio System



First Time Installation

Getting Started :

Once you have connected this Set Top Box (STB) to the appropriate video and audio input sockets on your TV, and have selected the matching inputs on the TV to receive these signals, you will need to be comfortable with selecting several basic operations before setting up your Set Top Box for the first time.

Firstly, the STB has two power modes: Standby and On. In Standby mode, the STB is powered up, but awaits a "power On" command from either the Remote Control or from the Standby push-button located on the front of the STB. In this mode, the front panel LED indicator glows red in colour.

When the STB is switched from Standby to the On mode, the power LED indicator on the front panel will change colour from Red to Green to indicate that the unit is fully powered up.

As most receiver operations are accessed using the supplied Remote Control, please take the time to review the button designations on page 2 of this manual. Especially take note of the most commonly used buttons; the cursor arrow buttons (LEFT, RIGHT, UP, DOWN) surrounding the OK button in the middle section of the remote control, as well as the MENU button at the top-left of the cursor keys, and the EXIT button at the top-right of the cursor keys.

First Powering on the STB :

When you first power up your STB, (or you reset the STB to its factory settings), it will automatically display the Installation Guide menu. This is where the Set Top Box searches for available TV stations and stores the station details it finds. Make sure a suitable TV antenna is connected before proceeding with this operation.

Alternatively, at any time you can select the Channel Search menu and use the "Auto Search" option to force the receiver to locate all the available TV stations.



By default, the Installation Guide will be locked to English as the On-Screen Display (OSD) language. Use the DOWN cursor key on the Remote Control to select the Country entryline (which should be pre-set to AUSTRALIA), and then use the DOWN cursor key to select the Channel Search line. Press OK to start the channel tuning process and display a Channel Search progress screen. Your STB will now scan through all the digital TV stations that it can receive using the connected antenna. This process may take several minutes, but once completed, the STB will skip to the first DTV program that was located during the Search process.

NB. Any Radioprograms located during the channel tuning process are sound-only services associated with the TV networks, and are not DAB+ radio broadcasts.

Basic Operation :

Once your STB has completed the tuning process and is receiving a digital TV service, you can use the UP/DOWN cursor keys to manually change the channel you wish to receive. To adjust the sound level, set the volume control on your TV to a commonly used level, and then use the STB LEFT/RIGHT cursor buttons to increase or decrease the volume to a comfortable level.

To gain better use of your Set Top Box, please now review the Menu settings on the following pages of this User Manual.

(1) Program Manage Settings

To access the Menu, press the MENU button on the Remote and select [Program] from the icon selections at the top of the screen. This Menu provides options to adjust the Program Manage Settings. Select an option and press OK or RIGHT to adjust that setting. Press the EXIT button to exit the Menu.



(2) Program Edit

To edit your program preferences (lock, skip, favourite, move or delete), you will need to enter the Program Edit Menu. This Menu requires a password to access. Enter the default password '000000'.



Set Favourite Program

You can create a shortcut of favourite programs that you can easily access. Set Favourite TV or Radio program:

1. Select the preferred program then press the FAVOURITE button on the remote control.
A Favourite Types sub-menu will appear, use the cursor keys on the Remote Control to select one of the 4 types of favourites, then press OK.
2. Repeat the previous step to select more Favourite programs.
3. To confirm and exit the Menu, press the EXIT key
Disable favourite TV or Radio Program:
Select the TV channel from the list on screen, then press the FAVOURITE button on the Remote Control. Use the favourite Type sub-menu to select Disable, then press OK.

View Favourite Program

1. Press the Favourite button on the remote and the Favourite Menu will appear.
2. Press the LEFT/RIGHT cursor buttons on the remote to select the type of Favourite channel to recall. Options are: Movies, News, Sport, Music.
3. Press UP/DOWN to select your Favourite Programs.
4. Press OK to select your favourite program.

Delete a TV or Radio Program

1. Select the Program and then press the BLUE button on the remote.
A message will appear on screen. Press OK to delete the program
2. Repeat the previous step to select more programs to delete.
3. To return a deleted channel to the Program list, perform a Channel Scan.

Skip TV or Radio Program

1. Select the program you would like to skip and press the GREEN button.
A skip symbol is displayed. The program is marked as a skip.
2. Repeat the previous step to select more programs.
3. To confirm and exit the menu, press the EXIT key.
Disabling a skip TV or Radioprogram:
Press the GREEN button on the skip program when a TV channel with the skip symbol is shown.

Move a TV or Radio Program

1. Select the preferred program then press the RED button. A move symbol will appear
2. Press UP/DOWN to move the program within the list of TV or Radio stations.
3. Press OK to confirm
4. Repeat the above steps to move more channels

Lock Program

You can lock selected programs for restricted view.

Lock a TV or Radio Program:

1. Select the preferred program then press the YELLOW button. A lock-shaped symbol is displayed. The program is now marked as locked
2. Repeat the previous step to select more programs
3. To confirm and exit the menu, press the EXIT button
4. Press the YELLOW button to disable the locked program
5. To view the locked program, you will be required to enter either the default password '000000' or your last set password.

(3) EPG (Electronic Program Guide)

The EPG is an on-screen TV guide that shows scheduled programs up to seven days ahead for every tuned channel. It also allows you to automatically set timer recordings (see page 10). Press the EPG button on the Remote Control to access, press again to remove.



Use the UP/DOWN keys to step through the listing; the red and green buttons allow you to step through the listing a day at a time.

On the right side, a program description is displayed for the highlighted program. If there is more than one page of information, the yellow and blue buttons allow you access to the second page, or you can simply use the up and down cursor buttons to step through the available programs.

Use the left and right cursor buttons to select different TV or radio stations.

(4) Sort

Sort your channels from the following options:

[LCN] - Sorts the channels in ascending order, (Logical channel Number)

[Name] - Sorts the channels in alphabetical order.

[Service Name] - Sorts the channels according to the station.

[Service ID] - Sorts the channels by station ID.

(5) LCN (Logical channel number)

Set LCN On or Off. If LCN is off, during tuning, stations are simply numbered in the order they are found.

If LCN is on, station numbers are assigned by the TV station themselves, eg ABC is number 2, 7 network is number 7, 9 in number 9 and soon.

Note: If you want to use the "Sort by LCN" method, LCN must be set to "on" before scanning the channels.

(6) Video Setting

To access this Menu, press MENU then select [Picture]. The Menu provides options to adjust the video settings. Press UP/DOWN to select an option and press RIGHT/LEFT to adjust that setting. Press EXIT to exit the menu and save the changed setting.



(1). Aspect Ratio

You must set the display format to either 4:3 PanScan, 4:3 Letter Box, 16:9 Wide Screen or 4:3 Full, 16:9 Pillar Box, 16:9 PanScan, or Auto to get the maximum display when watching TV.

(2). Resolution

If the video does not appear correctly, change this setting. This setting is to match the most common setting for HDMI.

[576i] for PAL system TV.

[576P] for PAL system TV.

[720P] for NTSC or PAL system TV.

[1080i] for NTSC or PAL system TV.

[1080p] for NTSC or PAL system TV.

(3). TV format

If the TV reception does not appear correctly, you may need to change this setting. This should match the most common setting for TVs in your country.

[NTSC]: for NTSC system TV.

[PAL]: for PAL system TV.

PAL settings are the most commonly used in Australia.

(7) Channel Search

To access the menu, press MENU and select [Channel Search]. The Menu provides options to adjust the Search Channel settings. Select an option and press RIGHT/LEFT to adjust the settings. Press EXIT to exit the Menu.



1. Auto Search

Search and install all DTV and Radio channels automatically. This option overwrites all preset channels.

1. Select [Auto Search] and press OK or RIGHT to start the channel search.
2. To cancel channel search, press EXIT.



2. Manual Search

Install new channels manually. This option adds new channels without changing the current channels list.

1. Select [Manual Search] then press OK or RIGHT. The channel search screen will appear.



2. Press the RIGHT/LEFT key to select the channel frequency

3. Press OK to start searching channels

If a channel is found, it is saved and added to the channels list. If channels can't be found, then exit the menu.

(3) Country

Select your country of residence.

(4) Antenna power

Enables Antenna Power (approx 5V dc, 100mA) to be connected to the RF IN socket for use by an external active antenna.

Warning: Do not activate the Antenna Power option unless you are certain that any devices in the coax line between your TV antenna and set top box are compatible with passing or operating from 5V dc. If in doubt, consult with a TV or installation technician.

(8) Time Setting

To access the Menu, press MENU then select [Time]. The Menu provides options to adjust the time settings.

Press UP/DOWN to select an option and press RIGHT/LEFT to adjust the settings. Press EXIT to exit the menu.



(1) Time offset

Select Auto or manual for GMT offset adjustments.

(2) Country Region

Select the Country Region when [Time Offset] is set to Auto.

(3) Time Zone

Select the Time Zone Offset when [Time Offset] is set to Manual.

(4) Auto Standby

If this setting is off, this function does not work. When this setting is on, the Set Top Box will go into sleep mode after 3 hours of no user-operation.

(9) Option

To access the Menu, press MENU and select [Option]. The menu provides options to adjust the OSD Language, Subtitle Language and Audio Language.

Select an option and press RIGHT/LEFT to adjust the setting. Press EXIT to exit the Menu.



(1). OSD Language

The OSD (OnScreen Display) language is fixed to English.

(2). Subtitle Language

Selects the preferred subtitle language. Once changed from the off setting, subtitles will always be shown during DTV reception (when subtitles are available).

(3). Audio Language

Selects the preferred audio language for watching TV channels.

If the language is not available, the default program language will be used.

(4) Digital Audio

Selects the digital audio output mode. Refer to your audio amplifiers user manual for its required input format.

(10) System Setting

To access the Menu, press MENU and select [System]. The menu provides options to adjust the system settings.

Press the UP/DOWN key to select an option and press RIGHT/LEFT to adjust the setting.

Press EXIT to exit the Menu and save any changed settings.



(1) Parental Guidance

You can restrict access to channels that are unsuitable for children.

To restrict/lock the channel you will need to enter either the default password '000000' or your own password. Use the RIGHT cursor button to select the required classification restriction, then press OK to confirm and press EXIT to exit the menu.

(2) Set Password

Set or change the password for locked programs. Enter your old password or the default password '000000'. You will then be asked to enter your new password. To confirm, re-enter your new password again. Once it is confirmed, press EXIT to exit the Menu.

(3) Restore Factory Default

Resets your Set Top Box to the Default Factory Settings.

In Main Menu select [Restore Factory Default] and press OK or RIGHT to select. Enter your password or the default password '000000' and press OK to confirm. This option will delete all preset channels and settings.

(4) Information

View model, hardware and software information.

(5) Software update



1. OAD

If the status is set 'ON', it will scan new software from TV broadcasts according to your preferred time in "Start time". We recommend this be left 'OFF' unless advised otherwise.

2. USB upgrade

This is for updating the STB's internal software. DO NOT activate this function unless you have valid GH5944 software as the only file on a USB drive that is connected to the STB.

(11) USB support Multimedia playback :



To access the Menu, press the MENU button and select [USB] using the RIGHT/LEFT keys. The menu provides options to playback Music, Photo and Multimedia files. It can support off-air DTV recordings made by this unit, as well as various low data-rate AVI, MPEG4, MP3, JPEG and BMP format files.

(a) Multimedia:

When a USB device is attached you can select from Music, Photo, Movie or PVR options using the RIGHT/LEFT keys and OK to select. If a USB device is not connected, the warning message "No USB device is Found" will appear.



(b) Photo configure:

- Slide Time: adjust slide show interval to 1~8 seconds.
- Slide Mode: adjust slide show effect as mode 0~59 or random.
- Aspect Ratio:
 - [Keep]: Play picture in its original aspect.
 - [Discard]: Play picture in full screen mode.

(c) Movie Configure:

- Subtitle Font:
 - [Small]: Displays the subtitle as small mode.
 - [Normal]: Displays the subtitle as normal mode.
 - [Big]: Displays the subtitle as big mode.
- Subtitle Background:
 - [White]: Displays the subtitle in white background.
 - [Transparent]: Displays the subtitle in transparent background.
 - [Grey]: Displays the subtitle in grey background.
 - [Yellowgreen]: Displays the subtitle in yellowgreen background.
- Subtitle Font Color:
 - Choose the subtitle font colors from Red, Blue, Green, Black or White.

Note:

- We cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assume no responsibility for any loss of data that may occur when connected to this unit.
- With large amounts of data, it may take longer for the system to read the contents of a USB device.
- Some USB devices may not be properly recognised.
- Even when they are in a supported format, some files may not play or display depending on the content.
- USB extension cables should be avoided as they may degrade performance.

PVR FUNCTION

The GH5944 can also function as a Personal Video Recorder (PVR), allowing you to record off-air Digital TV programs onto a USB 2.0 flash drive or USB 2.0 hard drive.

Media Limitations:

- FAT32 and NTFS-formattable USB hard drives are suitable. Standard drives in a USB adaptor harness are unlikely to work.
- Most modern USB Hard drives use the NTFS format file system. This STB will format most USB hard-drives and flash drives to either the FAT32 or NTFS formats.
 - Press "Menu", select USB > PVR Configure > Format. There will be a short delay while the drive is inspected, followed by details of the drive size and format type. Select the File System line, press ◀ or ▶ to select the format type, then select the Format line (typically "USB I/C") then press OK to format the drive.
 - Warning:** All existing data and recordings will be erased by the formatting process. Desired programs should first be copied onto another storage medium (eg. via a computer's USB connection).
- The USB PVR function relies on the use of high quality USB 2.0 drives (or USB 3.0 drives operating in USB 2.0 compatibility mode), and as such may not be compatible with some specific USB devices. USB drives up to at least 2 Terabytes (2,000GB) can be used; however USB-powered drives larger than 500MB may exceed the USB socket's power rating and need to be powered using an external power supply. Drives above 500GB may also take an unacceptably long time to start recording or playing back material.
- Most Flash Drives can record Standard Definition TV; drives with slower memory components may not reliably record HDTV.
- Camera Cards (SD etc) may work through a card-to-USB adaptor; but not all adaptors are compatible with this unit.
- There are no line inputs; recording is only possible from digital TV broadcasts. Recordings are made by directly storing the transmitted data stream.

Data Rates:

Australia: About 2GB/hr for SD broadcasts and about 4GB/hr for HD broadcasts, although this can vary depending on the broadcaster.

RECORDING :

To record the program the Set-top Box is currently tuned to:

With a USB drive connected to the Set-top box, press "Record" (next to the red "Standby" button on the remote control). An on-screen message "Record Initializing" will appear briefly, then recording will commence. Once recording is underway, only the STOP, EXIT, CHANNEL and STANDBY buttons will be operative. An elapsed time counter will appear in the top left hand corner of the screen.

This will disappear after a few seconds, or you can press the "EXIT" button to hide it. Press the INFO button once to display the elapsed time counter, or press INFO twice to display a detailed INFO screen showing remaining space on the USB drive, recording bit rate and file name.

During recording, it is possible to watch one channel while recording another, but only if the second channel is from the same transmitter as the one being recorded. For example you can record ABC1, while also watching ABC2, ABC3, or ABC News 24, but not a channel from another network (such as 7, 72 or 7 Mate). If you attempt to change to a channel on a different network, you will get a message asking if you want to terminate the recording first.

NOTE: The "Pause" button is non-functional during recording.

If the USB drive is full or is an unsuitable format, you will get an error message. If the USB device has an indicator light, it may also blink when recording is taking place. To stop recording, simply press the Stop button (above the yellow button on the Remote Control), then OK to confirm.

Record Cut -Off Timer:

Once the Record button is pressed, recording will continue until either STOP is pressed or the USB storage medium runs out of space. To time-limit the recording, press RECORD a second time. A cut-off time will appear on screen, starting with 30 minutes. Successive presses of the Record button will increase this in 30 minute increments. After 300 minutes it will return to zero.

NOTE:

1. The extra button presses will not register until recording has actually commenced.
2. You can set longer time-limited recordings by using the Timer function (see page 11).

PLAYBACK:

To view a list of recorded DTV files on the USB drive, press the LIST button on the Remote Control (next to the Mute button), or use the Menu function to select USB>Multimedia>PVR>HBPVR>OK.

A list of the recorded files will appear in the following format :

{TV Channel name}{Month/Day/Year}{Start time of Recording}
{Program name}.mts

The ".mts" at the end of each recording is the file name extension for the recorded digital TV data stream.

Immediate Playback:

Once you have the list of recorded files visible, use the Up/Down cursor buttons on the Remote Control to select the required file for playback, and press the PLAY button (directly above the Red colour button at the bottom of the Remote Control). The file will play back in full screen mode, and you can use the Forward, Reverse, and Pause buttons on the Remote during playback. For Fast Forward or Fast Reverse operation, press the Forward or Reverse buttons repeatedly to select between 2x to 32x speed options.

PLAYBACK FILE MANAGEMENT :

Select your preferred recorded file as above, but press "OK" instead of "Play". The list of files now remains on the screen and a small window shows playback of your selected file, plus information about its length etc. To switch between full-screen playback and the small window, press the Red button at the bottom of the remote.

Deleting files: To delete a selected file that is playing, you must first press Stop; then press the yellow button on the Remote control. A tick symbol will appear beside the selected file. Further files may be selected by using the up and down arrows and further presses of the yellow button; (To see what you are deleting, press the OK button before the yellow button; this will start windowed playback). When you have selected all the files to be deleted, press OK. You will see a "confirm deletion" option message; pressing OK a second time will delete the files. The deletion process may take several minutes for larger files.

Renaming files: Select a file using the up and down arrows and press the Green button. An image of a keypad will appear in screen. Use the arrow keys to select the letters, OK to confirm selection. "Extend" gives an alternative character set, "Back" deletes the last character entered, "OK" completes the task, "Cancel" exits without changing the file name.

Note: you can also rename files using a computer (see **FILE FORMAT** on page 11)

TIMER FUNCTIONS:

This device can carry out "Scheduled" recordings, similar to the timer record function in a VCR or DVD recorder. As well as allowing the user to manually enter the date and time, the timer can also be automatically set using the Electronic Program Guide (EPG). Timer functions will activate whether or not the PVR is switched to standby. When the timer is ready to activate, a warning message will appear.

IMPORTANT:

1. Make sure the time zone is set correctly! (see "Time" Menu)
2. The timer will not activate during USB playback.

Manually setting the timer: During reception of the DTV channel you wish to record, press the blue button, then the red button on the Remote control. A box titled "Schedule" should appear. Select the channel with the left and right arrow buttons, select start and finish times with the up and down arrows, and enter the date and time using the number keys on the remote control.

Mode: This has two options: "Record" and "View". In View Mode, at the set time, the PVR will automatically turn on and switch to the selected channel, but not record. This is useful if you want to record onto a separate device such as a VCR or DVD recorder. (You must also set the record time on your recording device). It can also be used to ensure that you do not miss the start of a particular program while you are watching another. (NOTE: this function cannot switch between file playback and live program). If MODE is set to "Record" (default), the PVR will record the program. Press "OK" to add the program to the "Schedule" list, then press "Exit".

Repeat: This allows you to record the same program on a daily or weekly basis. For example, the evening news or favourite weekly program(s). Options are once (default), daily or weekly. If set to daily or weekly, when the recording is completed, the scheduled record time is advanced by another 24 hours (or 7 days).

Setting the timer using the EPG:

The PVR's timer can also be set automatically by the Electronic Program Guide. Press "EPG", find your desired program using the arrow buttons, then press "OK". The "EventAdd" box will appear, except this time all the information from the selected EPG item will have been automatically inserted. Press "OK" to add it to the Schedule list.

TIME SHIFT ("LIVE PAUSE")

When a live program is being viewed while a USB device is inserted, pressing the "Pause" button will effectively freeze the live program. What actually happens is that the PVR starts recording the program, and when you press "Play" it starts playing back the recording from the beginning, while

simultaneously recording the rest of the program. If you allow at least 15 minutes before pressing "Play" you will be able to Fast Forward through undesired parts of the program. (However, once you "catch up" with the live recording point, obviously you cannot Fast Forward past that!)

CAUTION:

1. Programs are not always transmitted at the time stated in the EPG: most programs often run a few minutes late. To avoid missing the end of a program, you can modify the finish time manually, e.g. a finish time of 14:30 can be manually "bumped" to 14:40 to ensure the entire program gets recorded. Use the left and right arrows to select the character position, and enter the new time numbers with the numeric keypad.
2. The timer function will not activate while you are playing back a recording. If you stop playback in the middle of a period meant to be recorded, recording will commence after playback ceases.
3. The timer function over-rides the record off-timer setting.

FILE FORMAT:

All recordings are stored in a main folder named "HB PVR". The actual program data is stored as "MTS" files in subfolders carrying the recording's name e.g. **ABC2-02272012-1030-Program name.mts**
MTS format files are similar to MPEG2 files and can be read by most programs that can read MPEG2 files.

PLAYING BACK OTHER MEDIA FILES:

This unit can also play back other types of video files, including various resolutions of MPEG4/H264 movie downloads, files from tapeless video cameras and JPEG image files (see page 8).

Note: This unit will not play DV-AVI files from MiniDV and Digital-8 video cameras.

In some cases it is possible to play directly from camera SD cards via an SD to USB adaptor, but the preferred procedure is to transfer the files onto a USB type drive first.

All playback modes (PVR and Movie) will play sequentially. That is, when one program finishes, the next one will start playing. By pressing the blue "repeat" button you can also set the unit to continuously repeat the current program, repeat the entire list of programs, or playback programs in a random sequence.

Troubleshooting

Problem	Potential Reasons	What to do
No picture	Power isn't connected	Connect the power
	The power switch is not on	Switch on the power
Screen shows No Signal	Antenna not connected	Check antenna cable and plug
	Incorrect setting	Set up correct parameter
No sound from speaker	No or incorrect connection with audio cable	Check plug colours match sockets
	Sound is muted	Adjust volume control Press Mute button on Remote Control
	Incorrect sound track	Try another soundtrack
Only sound, no image on the screen	No or incorrect connection with AV cable	Check plug colours match sockets
	The program is a radio program	Press <TV/RADIO> key to shift into TV mode
Remote control unit is not workable	The batteries are exhausted	Replace batteries, ensure they are fitted correctly
	Remote not pointed at front panel or is too far away from it	Adjust the way of holding the remote control unit and operate it closer to the front panel of the Set Top Box
The image stops or freezes suddenly or produce mosaic patterns	The signal is too weak	Improve the antenna and its cabling

Technical Specifications

Item	Sub Item	Parameter
Tuner	Input Frequency	177.5MHz~226.5MHz 522.5MHz~830.5MHz
	RF Input level	-25~-78dBm
	IF Bandwidth	7MHz and 8MHz
	Modulation	QPSK, 16QAM, 64QAM
Video	Decoder Format	MPEG4 AVC/H.264HP@L4 MPEG2 MP@ML.HL
	Output Format	576p, 720p, 1080i, 1080p, 4:3 and 16:9
	Output Port	HDMI via HDMI-A Socket Composite/Component via RCA phono sockets
Audio	Decoder Format	MPEG-1 (layer1&2)
	Audio output	Digital audio: S/PDIF Analogue audio: RCA sockets
Power	Voltage	100-240V~ 50/60Hz
	Power	Max 8W Less than 1W standby



CUSTOMER CARE CENTRE

12
MONTH
WARRANTY

- 1 THIS PRODUCT IS WARRANTED FOR 12 MONTHS FROM THE DATE OF PURCHASE.**
Subject to the conditions of this warranty, the Customer Care Centre will perform necessary service on the product without charge for parts, or labour if, in the opinion of the manufacturer/ manufacturer's agent, the product is found to be faulty within the warranty period.
- 2** This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care. The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltage, accident, misuse, neglect, build-up of dirt or dust, abuse, mis-adjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
- 3** If warranty service is required you should:
 - Telephone the Customer Care Centre on 1300 662 946
 - Provide a copy of your purchase receipt that shows retailer's identity and date of purchase.
 - Send or bring the product to your Customer Care Centre.
Please note that freight to and/or from your Customer Care Centre must be arranged by you.
- 4** The warranties hereby conferred do not extend to any costs associated with the delivery, handling, freighting or transportation of the product or any part thereof or replacement of and do not extend to any damage or loss occurring during, or associated with transit.

**THIS WARRANTY CARD AND THE PURCHASE DOCKET
(OR SIMILAR PROOF OF PURCHASE)
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES**

**TROUBLE SHOOTING HELP LINE
1300 662 946**

Customer Care Centre
562 Spencer Street, West Melbourne
VICTORIA 3003

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Digital Living

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