

**Wintal**<sup>®</sup>  
Digital Living

**STB5HD**

**HD**

**HIGH DEFINITION DIGITAL TV RECEIVER**

576P | 720P | 1080i HD

# USER MANUAL



576P | 720P | 1080i HD

**DVB T**  
TERRESTRIAL

**HDTV**  
INTEGRATED TUNER

**HDMI**<sup>™</sup>  
HIGH DEFINITION MULTIMEDIA INTERFACE

**DOLBY**  
DIGITAL

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# I.GENERAL INFORMATION

## 1. Preface

STB5HD provides beautiful High Definition and Standard Definition Television pictures from Australian Digital TV broadcasts. An attractive On Screen Display and Electronic Program Guides help simplify installation and day to day use. Full Closed Caption Subtitle and Teletext functions are included. Extensive Digital and Analogue Audio Video connectivity simplify use with most modern display devices whilst Optical and Coaxial SP/DIF Audio outputs can provide full surround audio.

Program parameters restore automatically after power is disconnected. Equipped with the latest chipset technologies, STB5HD runs cool providing stable Digital Television reception you can rely on.

## 2. Main Features

- Centre Cut option displays 16/9 HD on 4/3 screens without black bars
- Resolutions: 1920 x 1080i, 1280 x 720p, 720 x 576p and 720 x 576i
- On Screen Display in clear 32bit colour & multiple languages
- Signal Strength and Quality information display included
- HDMI and Y/Pb/Pr High Definition Component outputs
- Composite and S-Video Standard Definition outputs
- Optical and Coaxial Digital Audio SP/DIF outputs
- 8 day Electronic Program Guide (EPG) function
- Software upgradable via PC RS-232 serial port
- Stores up to 3000 TV and Radio channels
- Saves program parameters at Power Fail
- Time display on front panel in Standby

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- Closed Captions and Digital Subtitles
  - Low power consumption in Standby
  - Full Teletext function included
  - Program Information Hot Key
  - Superb HD picture quality

### **3. For Your Safety**

Allow clear space around the receiver to provide sufficient ventilation

Do not cover the receiver's ventilation slots or place it near a heat source

Use a soft cloth and mild washing solution to clean the case

Do not connect or change cables when the receiver is plugged in

Do not remove the cover

Do not allow the unit to be exposed to extreme heat, cold or humidity

Liquids, spray or other materials must not make contact with internal parts.

### **4. General Operation of the Receiver**

The everyday operation of your receiver is accessed via user friendly On Screen Displays and Menus. These Menus can guide you through installation and channel manager with its various functions to enhance your viewing pleasure. All functions can be accessed through the Remote Control and the front panel keys provide access to basic functions. As new software may change the function of a receiver it should not be installed unless specific upgrade instructions have been given by Wintal for this receiver. Should you experience any difficulties with the operation of your unit, please consult the relevant section of this manual or Trouble Shooting. Alternatively contact your dealer or Wintal Customer Care Centre on 1300 662 946

## II. GETTING STARTED

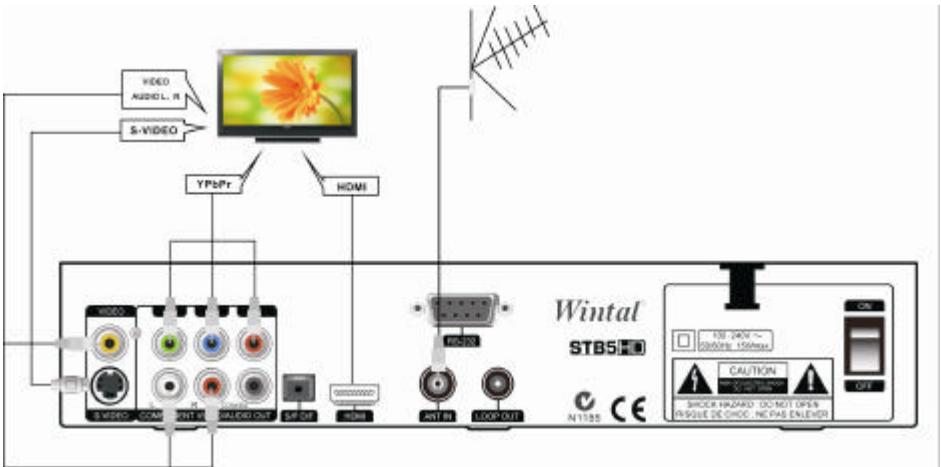
### 1. Install Receiver

#### Connection

Connect a functional TV Antenna to “ANT IN” for your local TV channels.

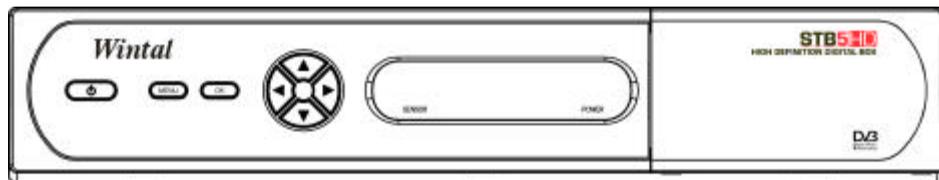
If in doubt call an experienced TV Antenna Installer.

Connect your receiver to the AV display device you wish to use. Please refer to the TV user manual when making connection to the TV . Your receiver's Menu will display the 'Installation Guide' confirming successful connection.



**WARNING!** As this is a High Definition receiver, video output Format should be selected to best match the native resolution of your display. To make initial installation easy, the unit default resolution is 576i which will give a picture on most displays . This can be easily changed. If your display shows the default error message “Please Select 576i ...” you are connected to an SD output when the receiver is in a HD mode which can be changed by repeatedly pressing the ‘FORMAT’ key until a picture shows.

## 2. Front Panel



The following controls are located at the right of the front mirror panel.

 : Switch between operation and standby modes.

**MENU:** Displays main menu and command box on screen.

**OK:** Confirm operation.

 : Change channels or move the cursor up/down in the menu.

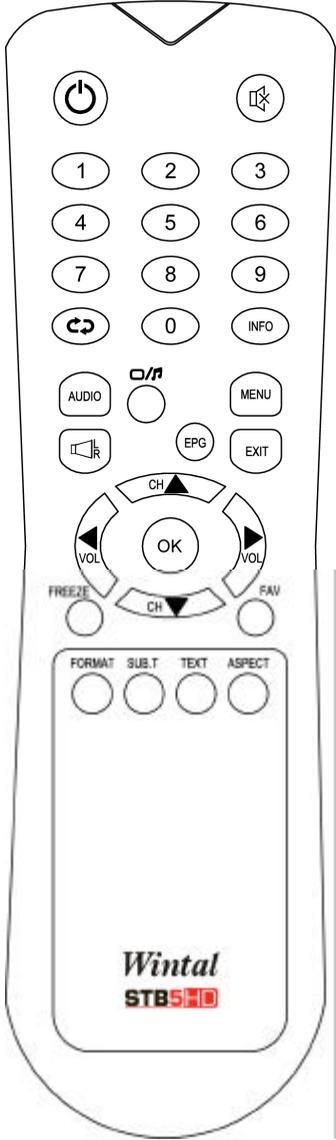
 : Adjust the volume or move the cursor left/right in the menu.

### 3. Rear Panel



- VIDEO:** Output video signal to VIDEO port on TV
- S-VIDEO:** Connect to S-VIDEO port on TV
- Y/Pb/Pr:** Output high definition video signal to YPbPr ports on TV
- AUDIO L/R:** Output left and right audio signal to R/L-AUDIO ports on TV
- COAXIAL :** Digital audio output
- SP/DIF:** Optical digital audio output
- HDMI:** Output high definition video and audio signal to HDMI port on TV
- ANT IN :** Connect to a terrestrial antenna
- LOOP OUT:** Connect to another receiver
- RS-232:** Connect to PC for software upgrade (authorized for qualified personnel).
- 100 to 240V:** Power supply
- ON/OFF:** Power switch

# 4. Remote Control:



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: Switch between operation and standby modes.

: Mute or restore the sound.

**Number Keys:** Number keys.

: Back to the previous channel.

**INFO:** Display information about current and next TV program.

**AUDIO:** Switch audio languages.

: Switch among left/right/stereo.

: Switch between TV and radio modes.

**EPG:** Display Electronic Program Guide menu.

**MENU:** Display the main menu.

**EXIT:** Back to the previous menu or full screen.

: Change channels or move the cursor up/down in the menu.

: Adjust the volume or move the cursor left/right in the menu.

**OK:** Confirm operation.

**FREEZE:** Pause/restore the play.

**FAV:** Display favorite channel list.

**FORMAT:** Switch video format among 1080i, 720p, 576p and 576i

**SUB.T:** Switch on/off Subtitle.

**TEXT:** Activate Teletext menu.

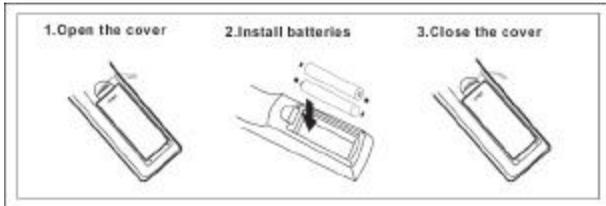
**ASPECT:** Change aspect ratio of screen among Full, Centre Cut and Letter Box.

**Note:**

- 1. Colour keys [Red], [Green], [Yellow] and [Blue] operate Teletext functions and some other special functions in Menu.
- 2. Subtitle and Teletext functions are only available when broadcast.

**4.1 Installing Batteries in your Remote Control**

Remove the battery cover from the remote control. Insert 2 x AAA size batteries inside the battery compartment. Please take note of the battery's polarity which is indicated inside the battery compartment.



**4.2 Using the Remote Control**

Point it towards the front of your receiver and press the desired key. The remote control has a range of up to 7 metres at an angle of + or - 60 degrees.

The remote control signal requires a clear path. Obstacles such as furniture, walls or plants can block the signal. Sunlight or room with bright light will decrease Remote Control sensitivity.

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## 5. Scan your channels

Check that 'Select TV Type' and 'Select State' match your screen shape and location.

Use ▲▼ and ◀▶ keys to change selection.

Press the [OK] key to start Scan. As digital broadcasts are found each channel is identified on screen and its programs listed. You can cut the scan short by pressing the [OK] or [EXIT] keys.

Menu reads 'Installation Guide – END' and shows a summary of the result.

Press [OK] to complete set up and exit to watch TV..

# III. MENU STRUCTURE

## 1. Channel

When you press the [Menu] key on the Remote Control unit the main Menu engages on screen. Starting from Channel mode, there are 4 sub-menu groups: 'Channel', 'Scan', 'Guide' and 'Setup'.

Channel Mode provides two options:

- 1) TV Channel List;
- 2) Radio Channel List.

Press **▶** to enter Sub Menu, **▲** or **▼** to navigate and **[OK]** to make a selection.



### 1.1 TV Channel List

In this mode, you can select [1] Favorite, [2] Edit, [3] Sort, [4] Add / Delete , [5] Move or [6] Search for channels, by name – using the on screen keyboard.



### 1.1.1 Favorite

1. Press the [1] key to select Favorite function.
2. Use the ◀▶ keys to select a Favorite storage location from 'HD' 'SD' or MOVIES' etc.
3. Use the ▲▼ keys to make a selection.
4. Press the [OK] key and a red ♥ mark will show to right side of selected channel name.
5. Add channels to each list as required.
6. When a Favorite storage locati on has channels saved in it a ♥ mark shows left of the Favorite group name.



To cancel, select ♥ marked channels again and press the [OK] key. The ♥ mark will disappear and the channel will be deleted from that Favorite list.

Press [EXIT] or [MENU] to store.

### 1.1.2 Edit

1. Press [2] and the On Screen Keyboard will appear.
2. Navigate with ▲▼◀▶ keys.
3. Select CLR to Clear existing name.
4. Press the [OK] key to select each character.
5. When complete press Screen Keyboard OK to confirm.
6. Press [EXIT] or [MENU] to store new name.



### 1.1.3 Sort

1. Press [3] to engage Sort.
2. Navigate with ◀▶ keys.
3. Programs can be Sorted by 'Logical' Channels, 'Channel Name' or 'Frequency'
4. Press [EXIT] or [MENU] to store.



### 1.1.4 Add / Delete

1. Press [4] to enter Add / Delete Channel function.
2. Use ▲▼ keys to select a channel to delete.
3. Press the [OK] key and 'CH Deleted' message appears on the top left corner of your screen.
4. Press the [OK] key again to restore. Deleted channels remain in the Add / Delete list but no longer appear in the Channel List.



### 1.1.5 Move

1. Press [5] key to move a channel within the TV Channel List.
2. Use ▲▼ keys and press [OK] to select a channel to move.
3. Use ▲▼ keys again to move channel to desired location and press [OK] to execute.
4. Press [EXIT] or [MENU] to store.



### 1.1.6 Search

Press [6] to search for channels from the Channel List using the On Screen Keyboard.



## 1.2 Radio Channel List

In 'Radio Channel List' you can also select [1] Favorite, [2] Edit, [3] Sort, [4] Add / Delete , [5] Move or [6] Search for channels by following the instructions above for TV Channel List.

## 2. Channel Scan

Channel scan allows you to rescan for all channels. Please note previously saved personal Channel Settings are lost when Scanning.

### 2.1 Auto Scan

1. Press the [Menu] key on the Remote Control Unit.
2. Select Channel and press [OK].
3. Press ▲ or ▼ and [OK] keys to select from 'Auto Scan' and 'Manual'.
4. Press [OK] again to start search.

Select 'Cancel' to stop the whole operation, and 'Exit' to return to previous page.

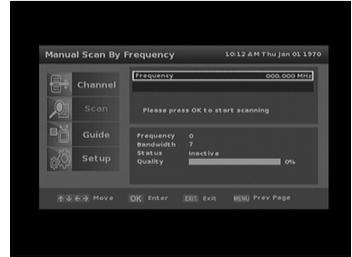
### 2.2 Manual scan

This function allows you to search for channels manually either by channel frequency or channel number. This function should only be attempt if you are familiar with the frequency or channel number.



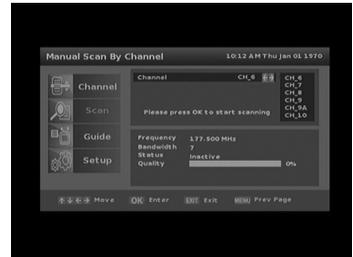
## 2.2.1 Manual Scan by Frequency

1. Input desired search frequency by using the numerical keypad on the remote control.
2. Press [OK] to start search.
3. Channel that is found will be saved into channel list.



## 2.2.2 Manual Scan by Channel

1. Select desired search channel number by pressing the ◀▶ keys
2. Press [OK] to start search.
3. Channels that are found will be saved into channel list.

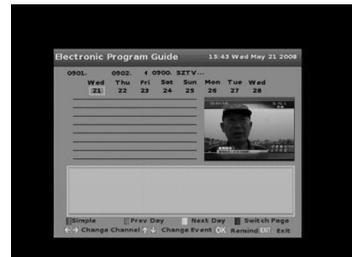


## 3. Guide

Informative Electronic Program Guide up to 8 days in advance is transmitted by many broadcasters.

Press the 'GUIDE' key to view EPG function (Full Guide)

- Press the ◀▶ keys to see EPGs for other channels and ▲▼ keys to move between program events.
- Detail description of the program is showed in the grey rectangle towards the bottom of the screen.
- The [Yellow] and [Green] keys allow selection of EPG for other days.
- Where more than 1 page of EPG data is available, press the [Blue] key to view 2<sup>nd</sup> page.
- Press EPG to exit.



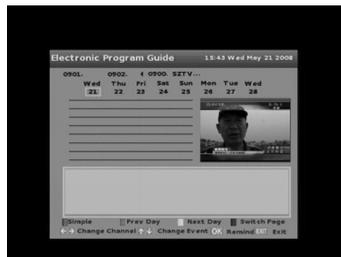
Press the [OK] key on the program to add program into “Remind List”. The unit will set a reminder to remind you about the up coming program which are added into the “Remind List”



‘Simple Guide ’ shows abbreviated program information. It is accessed from ‘Full Guide’ by pressing the [Red] key, and vice versa.

EPG Access via Menu:

Select [MENU] ‘Guide’ and ▶ to enter EPG. Press ▲ or ▼ keys to select from ‘Simple Guide’ ‘Full Guide’ and ‘Remind List’



## 4. Setup

‘Setup’ menu contains these 6 sub-menus:

- 1) AV Setting
- 2) System Setting
- 3) Timer Setting
- 4) Factory Default
- 5) System Information



### 4.1 AV Setting

‘AV Setting’ contains the following sub menus:

**Audio Language:** Select the desired language.

**Resolution:** Resolution is use for switching the video output mode (576i, 576p, 720p and 1080i). You can press [Left/Right] key to select each mode circularly.

**Screen Ratio:** This function allows you to select the



match method of the receiver's video output to best match your TV or display (4:3 and 16:9).

**Screen Format:** Select the desired format (Full and Letter).

**SPDIF Output:** Select the desired digital audio output option (Off, PCM and AC3).

## 4.2 System Setting

'System Setting' allows the user to select Time Zone, Daylight Saving, OSD Language, Screen Transparency, Guide Default and Change Password in this mode.



## 4.3 Timer Setting

'Timer Setting' will switch your receiver On or Off Automatically at a desired time. Select 'Timer Setting' and press the [OK] key to enter this mode. Dates must be entered in MM/DD/YY format.



## 4.4 Factory Default

'Factory Default' resets all the receiver parameters to the condition when shipped.

1. Press the [OK] key and the receiver asks 'Please Input your password'
2. Once Password is accepted the receiver asks 'Are you sure to load Factory Default?'
3. Press the ◀ key and the word 'YES' will turn



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Yellow. Press the 'OK' key and receiver will reset.

4. Factory Default password is 1 2 3 4. Use function carefully.

Note: This function will reset all settings to default settings and clear all saved channel including favorite list.

## **4.5 System Information**

System information provides technical information including Product, Software Version, Hardware Version, and Loader version.

## IV. TECHNICAL SPECIFICATION

<b>TUNER</b>	
Input frequency	174 to 860MHz UHF & VHF
Bandwidth	7 or 8 MHz
Input level	-72 to -20dBm
Input impedance	75Ω
<b>CHANNEL DECODING</b>	
Demodulation	QPSK, 16QAM, 64QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8.
Mode	8K or 2K
Guard Band	1/4, 1/8, 1/16, 1/32
<b>DEMULTIPLEXER</b>	
Standard	ISO/IEC 13818-1
Input max. bit stream rate	60Mbps (Serial) /7.5Mbps (Parallel)
<b>VIDEO DECODING</b>	
Standard	ISO/IEC 13818-2
Aspect ratio modes	16:9, 4:3 Centre Cut and 4:3
Video output resolution modes	576i 576p 720p 1080i
<b>AUDIO DECODING</b>	
Standard	ISO/IEC 13818-3
Output modes	Stereo, Left, Right.
Sampling frequencies	32, 44.1, 48KHz
<b>AV OUTPUT</b>	
Video de-emphasis	CCIR REC.405-1, 625LINES
Video bandwidth	5.5 MHz
Video output impedance	75Ω
Video output level	1.0V peak to peak
Audio output frequency	20Hz to 20KHz
Audio output Impedance	Low

<b>POWER</b>	
Input voltage	AC100 to 240V, 50 to 60Hz
Power consumption	15 W max
<b>AMBIENT</b>	
Operating temperature	0° to 40° C

## V. TROUBLE SHOOTING

Note : If you cannot solve the problem by referring to the above trouble shooting, please contact your local dealer.

<b>Problem</b>	<b>Possible Causes</b>	<b>What To Do</b>
The display on the front panel does not light up.	Mains cable is not connected.	Check that the main cable is plugged into power socket.
No sound and picture, but the front panel shows time.	The unit is in standby mode.	Press the  key on the RCU or front panel.
No sound or picture.	Poor signal quality or bad interconnections	Check the antenna system Check cable connections.
Bad picture/ Blocking error.	Signal is too strong.	Try a signal attenuator to the RF IN port.
No picture appears on the TV screen.	The system is connected by SCART leads and TV is not in AV/EXT mode.	Check that you have selected the correct channel or Video Input on your TV.
There is interference on your digital terrestrial channel.	The AV connection to your display is not matched properly to your receiver.	Check the connection method and press the FORMAT key for best picture.
The RCU is not working.	Battery exhausted.	Replace the batteries.