Wintal®
Digital Living

PVR2HD

High Definition Dual Tuner
Personal Video Recorder

USER MANUAL

HD
PVR
320GB

576P | 720P | 1080i HD

DV3 T
TERRESTRIAL

HDTV

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

TWIN TUNER

320GB
HDD

DOLBY
DIGITAL

ONE
TOUCH
RECORD

IMPORTANT SAFETY INSTRUCTIONS

1. Be sure to read this user manual before operating your PVR.
2. Never open the cover. It is very dangerous to touch the inside of the unit due to possible electric shock.
3. When not using your PVR for a long time, please pull the power cord from the outlet.
4. Ensure that there is no damage to your power cord.
5. Do not touch the unit with wet hands. If there is liquid flowing into the unit, pull out the power cord immediately because it may cause fire or electric shock.
6. Place the unit in a well ventilated environment.
7. Install the unit horizontally. Unbalanced installation may cause damage to the unit.
8. When the unit is suddenly moved to a hot area from a cold area, it may cause problems. In that case, turn off the power, and turn on after 1-2 hours.
9. Install the unit in a place with: good ventilation, suitable temperature, away from direct sunlight, and low humidity.
10. Do not put heavy objects on the unit.

INSTRUCTION MARKINGS:

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

This symbol indicates there is a dangerous voltage within the PVR, which may have sufficient magnitude to constitute a risk of electric shock if not handled correctly. To avoid the risk of electric shock, do not open the housing at any time.

Danger Symbol
The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of dangerous voltage in the unit.

Warning Symbol
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the manual accompanying the unit.

TABLE OF CONTENTS

GENERAL INFORMATION

1. PREFACE

Congratulations on your purchase of the Wintal PVR2HD.

Your HD PVR is equipped with the latest technology and design; it can decode high and standard definition digital TV programs, and can also record and playback terrestrial digital broadcasts. You can view a variety of programs provided through terrestrial transmission. Simply pressing the power button on your remote control will provide you with crystal clear picture and DVD quality sound.

Throughout this manual you will notice that operating your HD PVR is easy.
In case you experience any difficulties using this product, please consult the relevant section of the manual for assistance.

2. MAIN FEATURES

- MPEG-2 HD/SD decoding (MP@HL/ML)
- Fully DVB-T & MPEG-2 compliant
- Down-mixes 5.1 AC3 to two channels encoded with Dolby Prologic Surround, also Support PCM digital audio output (Bitstream)
- 5000 Editable Channels
- Auto or Manual installation
- Electronic Program Guide and Information Plate (EPG)
- RF modulator for TV standard (PAL B/G, NTSC)
- Digital Audio Output S/P DIF
- Signal level & quality indicator
- Composite video output
- Software upgradeable via RS-232 serial port
- Auto PAL/ NTSC conversion
- Standby with low power consumption
- Clock adjustment
- Excellent Performance
- Fast Channel Change
- Conversion between SD programs and HD programs
- YPbPr Output: supporting 1080i
- HDMI output: supporting 1080i
- Digital Reception covers through VHF & UHF band
- Wide screen 16:9 and normal 4:3 Aspect Ratio
- Bandwidth of 6MHz & 7MHz & 8MHz Supported
- TeleText / Bitmap subtitle, compliant with ETSI/EN300 472
- S/P DIF (Digital Audio or Dolby AC3 Stream out)
- RTC (Real Time Clock) Timer
- 65536 Colour Graphic
- 8 Favourite Channel List
- Channel Editing Capability (Move, Delete, complied Lock and etc.)
- PVR Functions and Twin Tuner Function
- Time shift (buffering): 1 Hours

- Recording Time: 120hrs SD/ 75 hours HD
- Variable Forward Play Speed: 2, 4, 8, 16, 32, 1/2, 1/4, 1/8
- Variable Reverse Play Speed: 2, 4, 8, 16, 32, 1/2, 1/4, 1/8
- Fast Schedule: Support Once/Daily/Weekly mode
- Chase Play
- Region Selection for Replay
- Variable Combination of Watching and Recording Simultaneously
- Live Watching or Recording + Live Watching or Recording or HDD Playback
- Grouping for Cascade Playing
- Assist Key to make operate more convenient

3. ACCESSORIES

Please check the following accessories are enclosed
- 1 x User Manual
- 1 x Remote Control Unit
- 1 x AV lead
- 2 x AAA Batteries
- 1 x RF Male to RF Female Cross Cable

Note:
If any of the accessories listed above are missing, please contact the dealer where this product was initially purchased.

4. GENERAL OPERATION

Throughout this manual you will notice that the everyday operation of your Wintal PVR2HD is based on a series of user friendly on screen display and menus. These menus will help you get the most from your PVR, guiding you through installation, channel organizing, viewing and many other functions.

All functions can be carried out using the buttons on the RCU (Remote Control Unit), and some of the functions can also be carried out using the buttons on the front panel.

Should you experience any difficulties with the operation of your unit, please consult the relevant section of this manual, including "Problem Shooting", or alternatively call your dealer or a customer service adviser.

OVERVIEW

1. FRONT PANEL

NAME	FUNCTION
STAND BY	Switch between operation and standby modes
CH+/ CH-	Change channel

2. REAR PANEL

From left to right:

NAME	FUNCTION
ANT 2 IN	Connect to terrestrial antenna
ANT 1 IN	Connect to terrestrial antenna
LOOP OUT 2	RF Loop through output to 2nd receiver
LOOP OUT 1	RF Loop through output to 2nd receiver
HDMI	HDMI video output [Supports high definition output]
S/PDIF	Connect to amplifier for digital audio output
RS232	Serial port used for software upgrade
YPbPr	Component video output [Supports high definition output]
R-AUDIO	Right audio output
L-AUDIO	Left audio output
CVBS	Composite video output
100-240V	Power supply
ON/OFF	Main power switch

3. REMOTE CONTROL UNIT

STB POWER	Press to switch between Operation and Standby modes
MUTE	Press to temporarily cut off the sound
AUDIO	Press to switch the audio channel among the Left, Right and Stereo modes
0-9	Press to enter required numbers in the input box or select a channel to watch
TEXT	Press to enter the teletext window
CC	Used to turn Closed Caption subtitles on or off
LAST	Returns to previous program.
INFO	Press to show information of the current channel
◄▲▼►	Move cursor up/down/left/right, Page up/down, Volume +/-
OK	Press to execute the selected item in the menu, or to confirm the desired value in input mode
MENU	Press to display the Main Menu on the screen
EPG	Press to display EPG (Electronic Program Guide) menu
FAV+/-	Press to display the FAV list
EXIT	Press to return to the previous menu or escape from the item

PVR functions:

LIST	Press to display the Recorded Program List.
PVR	Press to display the PVR Assist window.
FIRST	Change file playback position (backward).
SET MARK	Set the bookmark in playback progress bar.
PLAY MARK	Press to jump to the next bookmark in playback progress bar.
END	Change file playback position (Forward).
PLAY	Return to Normal Speed Playback from FF/FR/Slow/Paused mode.
PAUSE	Pause from live video or playback, and step when playback in Paused mode.
STOP	Stop playback when playback or stop recording when recording.
RECORD	Record current service or set stop recording time when recording.
REW	Fast rewind
F.F	Fast forward
SLOW	Press to slow at 1/2, 1/4, speed
TIMER RECORD	Shortcut to schedule recording

THE LEARNING KEY

Your PVR remote has four learning keys plus a self-coding function. The keys can be used for the STB remote to function as any of the four keys on your TV remote.

The recommended keys to use are "TV POWER", the two grey keys below "TV POWER" "TV/AV", and "SET". The identification of "TV/AV" key varies with the TV type. For example, identifying AV INPUT 1 2 3, etc.

You do not need to use your TV remote when watching the digital TV program and services once your PVR remote has been set up to turn on your TV and change to the correct AV channel.

Instructions to use the STB RCU learning keys:

1. Press and hold the "SET" key on your remote for three seconds, indicator light will keep on;
2. Aim your TV remote to the "receiving window" on the back of your PVR remote while pressing the key you want it to learn (eg. the Power button on your TV remote).
3. The indicator light of the STB RCU flashes three times, and it indicates that the STB RCU has received the signal from your TV remote;
4. And press corresponding learning key on "TV key" window of your PVR remote again (such as the TV power key), the indicator light will flash three times. This indicates that the key has been learnt successfully and is ready to use.
5. When pressing keys on the "TV key" section on your PVR remote, the indicator light will flash. This indicates that your PVR remote is sending control signals to your TV. It is the same as the VOL+, VOL- and TV/AV keys.

APPENDIX:

1. When watching TV pressing the "INFO" key on your remote will bring up the information of the current and next program, such as name, starting time and ending time. This message will disappear automatically after several seconds.
2. The description information of the current channel will be displayed on the screen for several seconds by pressing the "INFO" button again.

4. CONNECTION DIAGRAM

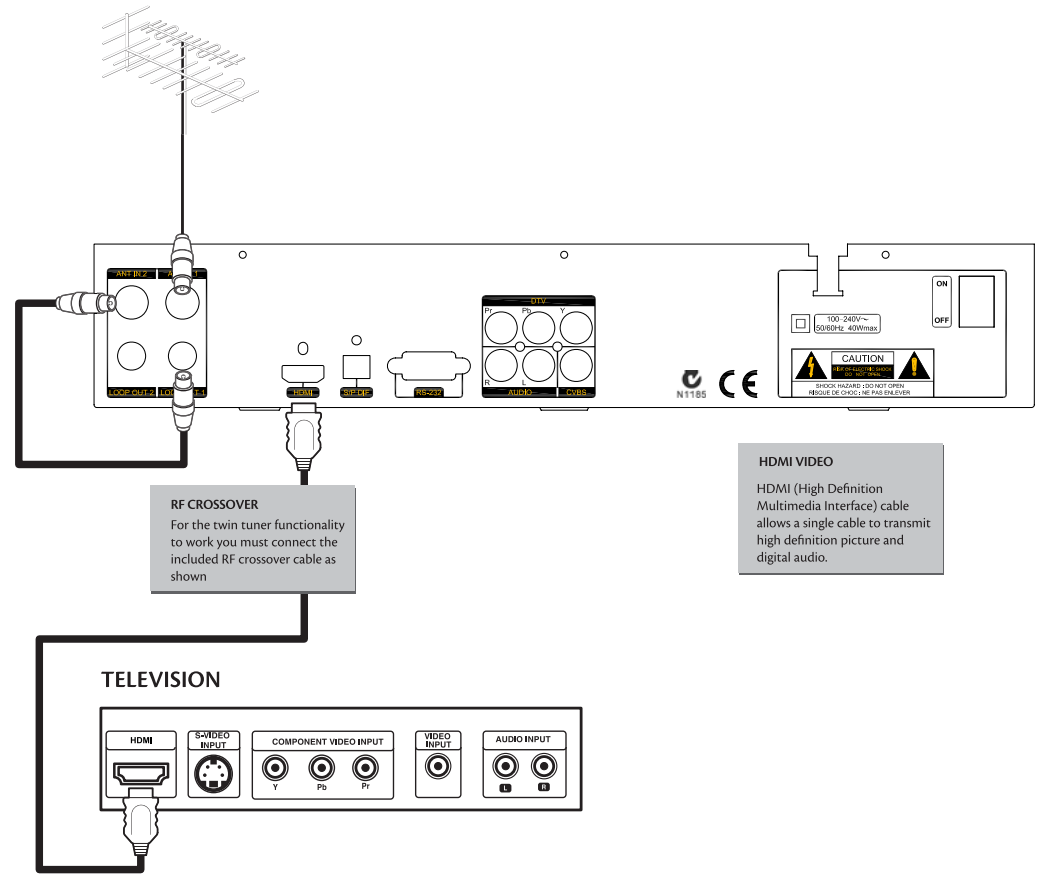There are various ways to connect your PVR to your TV.

The recommended options to obtain high definition picture is via HDMI, followed by Component (YPbPr).

Important: To make use of the twin tuner functionality built-in to your PVR, you must ensure that you connect the supplied RF crossover lead from Loop Out 1 to Ant in 2.
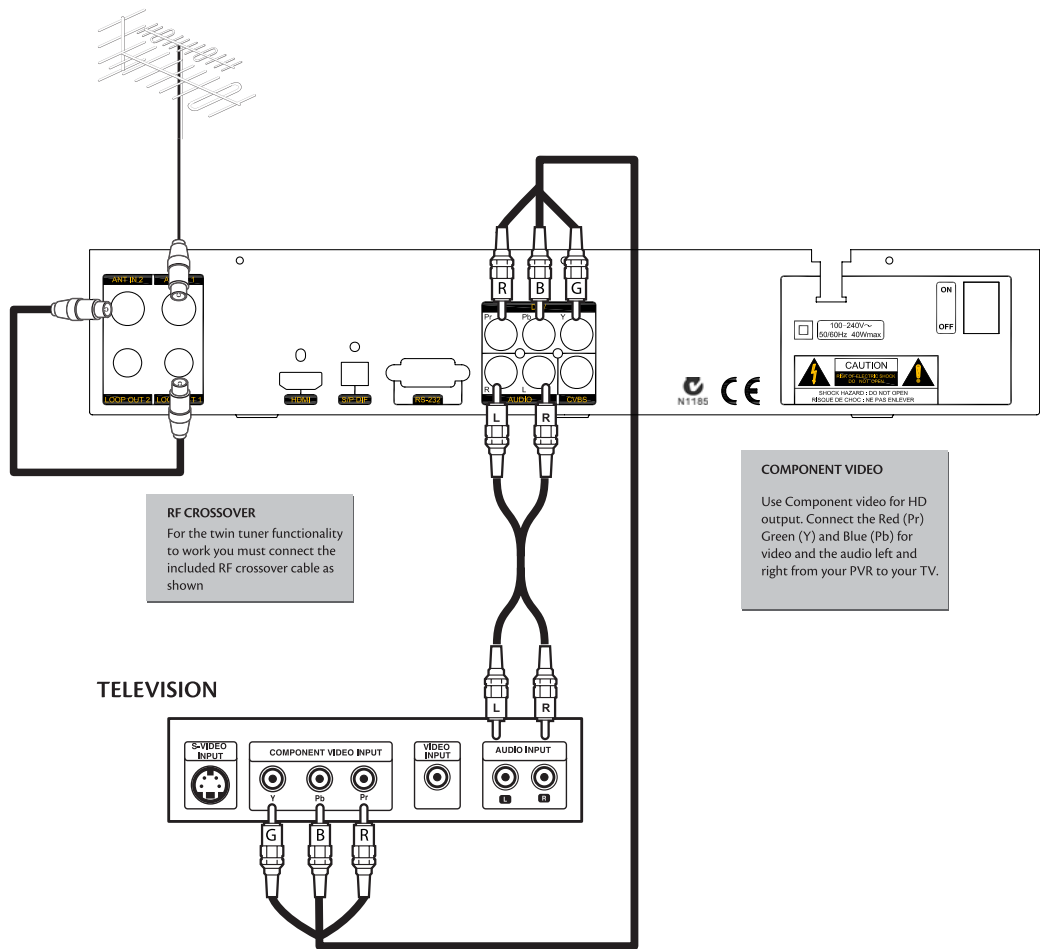
A. USING HDMI CABLE

HDMI is the recommended connection for your PVR (if you have a TV with an HDMI input). An HDMI connection will allow you to transmit 1080i digital video and digital audio signals using a single lead.

- Connect the antenna to ANT IN of the STB
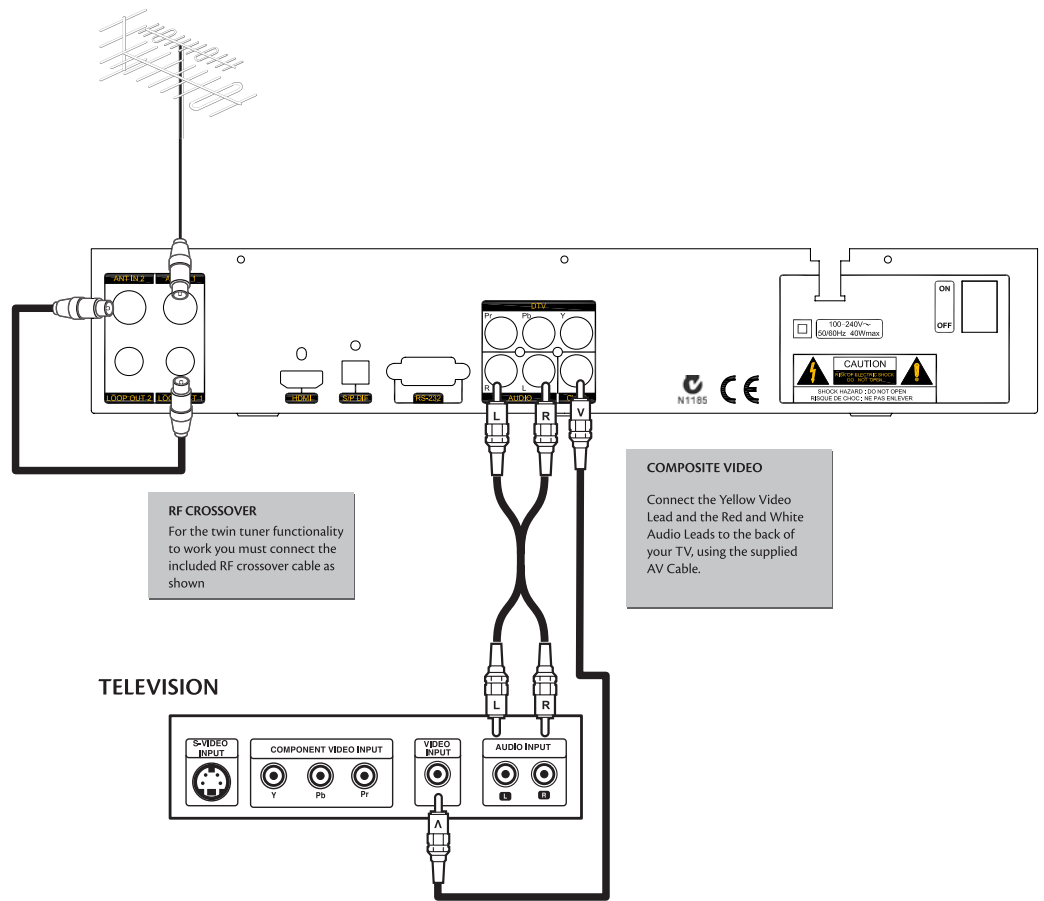- Connect one end of your HDMI lead to the PVR and the other end to the HDMI port on your TV.

HDMI VIDEO

HDMI (High Definition Multimedia Interface) cable allows a single cable to transmit high definition picture and digital audio.

RF CROSSOVER
For the twin tuner functionality to work you must connect the included RF crossover cable as shown

TELEVISION

B. USING COMPONENT (RGB) LEAD

- Connect the antenna to ANT IN of the STB.
- Connect to TV as shown.

RF CROSSOVER

For the twin tuner functionality to work you must connect the included RF crossover cable as shown

COMPONENT VIDEO

Use Component video for HD output. Connect the Red (Pr) Green (Y) and Blue (Pb) for video and the audio left and right from your PVR to your TV.

TELEVISION

C. USING RCA CABLE

- Connect the antenna to ANT IN of the STB
- Connect to TV by using the supplied AV lead as shown:

RF CROSSOVER

For the twin tuner functionality to work you must connect the included RF crossover cable as shown

COMPOSITE VIDEO

Connect the Yellow Video Lead and the Red and White Audio Leads to the back of your TV, using the supplied AV Cable.

TELEVISION

OPERATION

Pressing the MENU key when there is no other dialogue window open, will display the main menu.

The main menu consists of five menu items as shown below.

- 1. Installation
- 2. Program Guide
- 3. Program Manage
- 4. Program Select
- 5. PVR
- 6. System Setting
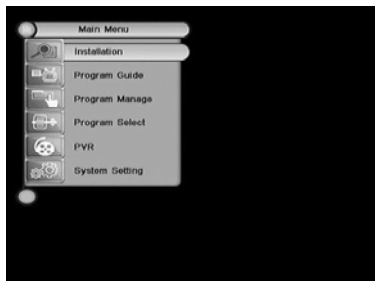
Use the ▲▼ keys to move up or down from one item to another. Press the OK key on your remote to enter the selected sub-menu.

To exit the menu system at anytime, press EXIT on your remote.

Note: When in sub-menus, pressing the EXIT key will take you back one-step through the sub-menus. To completely exit from the menu, keep pressing the EXIT key on your remote.

1. INSTALLATION
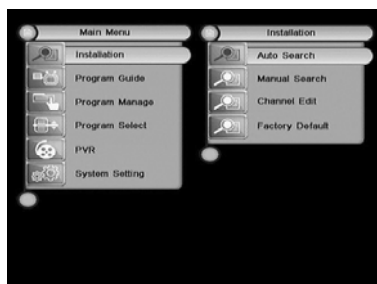
The Installation menu allows two ways to search for programs: **Auto Search** and **Manual Search**.

1.1 AUTO SEARCH

For beginners the Auto Search feature is the best choice. First use the ▲▼ keys to select Auto Search from the Installation menu. Then press OK to enter the Auto Search sub-menu. The System will automatically search programs under Channel Edit. Once the search is complete, the newly found programs will be added to the TV program list and your PVR will automatically display the first found channel.

During the search process you may press the EXIT key to stop or press the OK key to skip. Press the EXIT key again to exit from this window.

1.2 MANUAL SEARCH
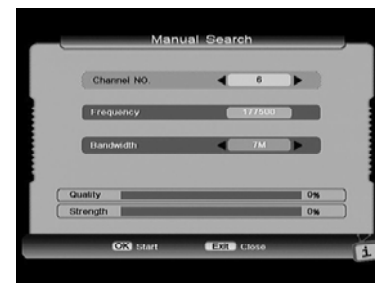
You can set parameters in Manual Search window if you are familiar with relevant parameters (such as specific transmission frequencies for specific channels). In this mode, only one channel, whose necessary parameters are set in Manual Search window by hand, can be searched.

Channel No.: Press the ◄► keys to select proper option among the Channel List that you can edit in the Channel Edit window.

Frequency: The value varies with what you have selected in Channel No.

Bandwidth: Press the ◄► keys to choose 6M, 7M or 8M.

At the bottom of this window, there are two dynamic colour bars reflecting the signal's quality and strength. You can check whether you have set your antenna well by these two bars.

After modifying, press the OK key to start searching. If the search is completed successfully your PVR will turn to view the first searched program automatically. During the whole process, you can press EXIT key at any time to exit.

1.3 CHANNEL EDIT

Select Channel Edit item in the Installation menu and press the OK key. The Channel Edit window will be displayed on the screen. From here, new channels can be added and the existing ones can be edited or deleted.

You can use the colour keys on your remote to execute the corresponding command shown at the bottom of this window.

Add (Red key)   Delete (Green key)   Modify (Yellow key)

Add
After pressing red key on your remote, the Add Channel window, where you can set necessary parameters of the new channel, will be displayed on the screen.
Frequency: You can input values referring to above by using the number keys on your remote.
Bandwidth: Press the ◄► keys to choice 6M, 7M or 8M.
After setting all the parameters, press the OK key to confirm and exit from the Add Channel window. In Channel Edit window, you can find that the new channel has been added to the end of the list.

Delete
This command allows you to delete one or more unwanted channels. Select the channel you want to delete and press the green key on your remote.

Note: After you choose to delete the channel (by pressing the green key), the system won't ask you to confirm your deletion. So please make sure before you delete the channel.

Modify
Select the channel you want to edit first and then press the yellow key to display the "Modify Channel" window. The operations are the same as "Add".

1.4 FACTORY DEFAULT

In Installation menu, move the selection to Factory Default and press the OK key, a warning message box will be displayed on the screen, press OK key to confirm your selection.

NOTE: After restoring default, all programs you have searched will be erased and all parameters will return to the factory default. Please use this operation with care.

2. PROGRAM GUIDE
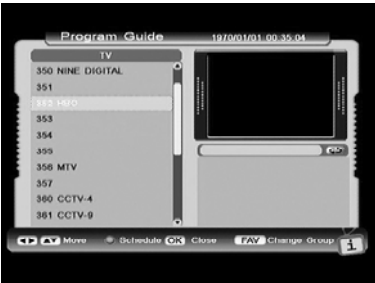
NOTE: Pressing the EPG key on your remote will also enter the Program Guide window directly.

The left hand of this screen displays the available channels. You can see a preview of the channel and the EPG information on the right hand side.

Press the "Recall" key to switch between several days of EPG for that channel.
Press the FAV key to change the group.
Press the Green colour key to enter into the program schedule window.
Press the EXIT key to return to main menu.

Note: EPG information is entirely based on what the broadcaster chooses to broadcast. And may not necessarily be accurate.

3. PROGRAM MANAGE

3.1 PROGRAM EDIT

Through this window, you can edit programs according to your requirements. The three colour keys on your remote have the following functions.
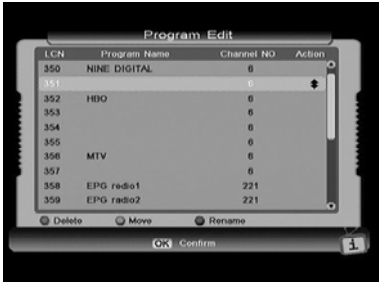**Delete** (Red key) | **Move** (Green key) | **Rename** (Blue key)
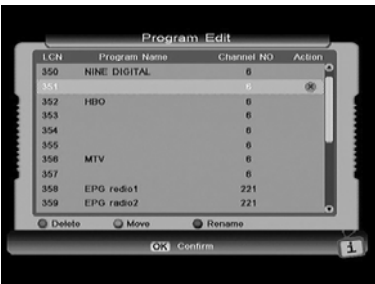
Delete
Delete allows you to delete one or more unwanted programs permanently. First select the program you want to delete and press the red key on your remote.
You can continue to select other unnecessary programs and mark them (shown with a red

cross) and finally press OK key to delete all of them from the list.

Move

Only one program item can be moved up or down each time. Press the ▲▼ keys to select the program you want to move and press the green key on your remote. An Up-Down-Pointed arrow will be displayed right of the selected program. You can press the ▲▼ keys to move this program to where you want. Press the green key again to confirm the new location.

Rename

Use the ▲▼ keys to select the program you want to rename, press the blue key on your remote, and a on screen keypad will pop up where you can rename the program name.
In this keypad window, select your required character by using direction keys on your remote and press OK key.
The selected character will be shown in the title bar at the top of this keypad window. To switch between capital and lowercase letters, please select Caps On command and press the OK key on your remote. The Back command allows you to erase the unwanted character in the title bar. Move cursor to the OK command and press the OK key on your remote. The keypad will disappear and the new name will be shown in the program name column. You can define several program names in the same way.

3.2 FAVOURITE EDIT

This window includes the three columns of FAV, Selected, and Programs. While there are no prepared favourite groups in FAV column, you can define and modify favourite groups name by using the corresponding colour keys on your remote. Additionally, you can add programs to any favourite group.
The ◄► keys are used to switch among the three columns, and the ▲▼ keys are used to select items in each column. Notice that what will be shown in the Selected and Programs column varies with the favourite group that you have selected in the FAV column.

How to define a favourite group

Press the Red key on your remote, and a on screen keypad will pop up where you can define a favourite group name.
In this keypad window, select your required character by using the direction keys on your remote and press OK key.


Then the selected character will be shown in the title bar at the top of this keypad window. To switch between capital and lowercase letters, please select Caps On command and press the OK key on your remote. The Back command allows you to erase the unwanted character in the title bar. Move cursor to the OK command and press the OK key on your remote. The keypad will disappear and the new name will be shown in the fav column. You can define several favourite groups in the same way.

How to modify a favourite group

In the FAV column, use the ▲▼ keys to select one that you want to modify and press the yellow key. Once the on screen keyboard pops up refer to the above instructions to make your modifications.

How to delete a favourite group

In the FAV column, the selected favourite group will be deleted from the list after the green colour key on your remote is pressed.
Note: After you choose to delete the group (by pressing the green key), the system won't ask you to confirm your deletion. So please make sure before you delete the group.

How to add programs into a favourite group
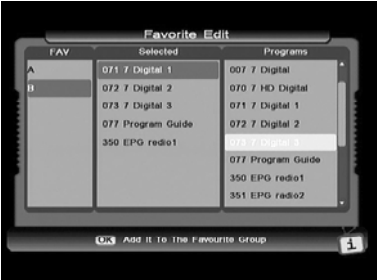
Select one favourite group (for example Sports favourite group that you have just defined) in the FAV column, and then move the cursor to the Programs column. In the Programs column, select programs that have a relation with Sports and press OK key, and then those programs

will be added into Sports favourite group and shown in the selected column.

If you want to deselect one program in Sport favourite group, move cursor to program that you want to delete from selected column and press the OK key, and then this designated program will disappear in selected column.

4. PROGRAM SELECT

In the Main Menu, use the ▲▼ keys to select the Program List item, and press the OK key to enter into the Program List menu. From here, the default mode is "TV" mode.

In program list, the ◄► keys are used to select the desired program and pressing the OK key allows you to view the selected program.

For example, let's say you set up 2 favourite Groups:
1. All HD channels **2.** All SD channels

To watch only the selected favourite channels (see section: Favourite Edit), you can use the left and right arrow buttons to select how the program list is displayed. You can choose between show ALL, or only HD or SD groups (which you created earlier).

Say you choose HD favourite group, you will see the Channels you added into this favourite group. If you highlight one of these channels and pressed OK, the PVR2HD will go back to normal viewing mode, but each time you change channel, you will only cycle through channels within your HD favourite group. To get back to all channels, simply press OK button and get the program list back up, and use the Left and Right arrow keys to change the Program list choice back to ALL.

5. PVR

5.1 RECORD FILE EDIT

You can edit recorded channels in this menu.
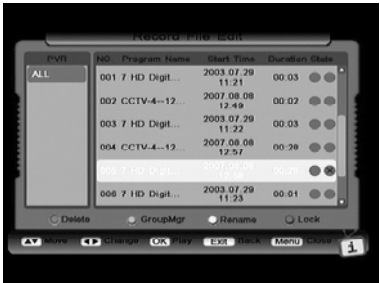
Delete: Select a recorded file you want to delete, and press the Red key.

Rename: Press the Yellow key to display the on screen keyboard. You can edit the file name using the arrow keys on your remote

Lock: Press the Blue key on the selected file name. This feature will prevent you from accidentally deleting the selected recording.

GroupManager: The Group Manager allows you to make groups of your recordings for easy location. Press the Green key to create a new group list. You can press the OK key to add a recorded file to the group. Red key cancels an existing group and the Yellow Key modifies its name.

5.2 Schedule

Select the Schedule menu item and enter it by pressing the OK key. The Schedule Programs list window will be shown.
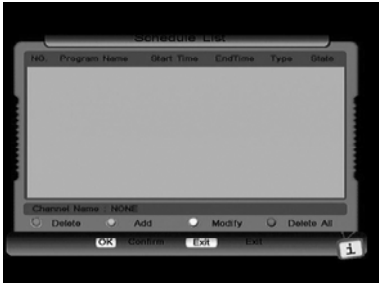
To add a new Scheduled task, press the Green key on your remote.
To delete existing scheduled tasks: press the Red key to delete an individual task, or press the Blue key to delete all the existing tasks. You will have to confirm your decision once you press OK.
Press the EXIT or MENU keys to exit.

5.2.1 Adding Scheduled Tasks

In Add Schedule, there are parameters below to be set.

Schedule Type: Rec or Play
You can either have the PVR2HD start recording, or automatically switch a selected channel at a desired time.

Schedule Start Time: Input wanted time by using the number keys on your remote, or press OK to enter the sub-menu to set the date and time (The FAV key on your remote is used to switch between date and time)

Schedule End Time (hh:mm): Input wanted time to stop recording, or playback using the number keys on your remote.
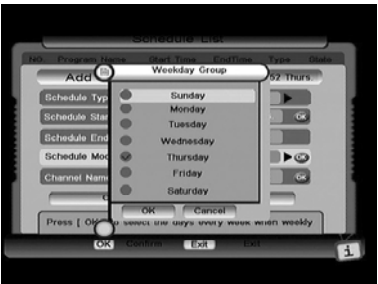
**Schedule mode:** Once / Daily / Weekly.

Once: The task will activate only on the selected date and time.

Daily: The task will be activated every day on the selected start and end times.

Weekly: The task will be activated every week on the selected day(s)
When you choose the "Weekly" mode and press the OK key on your remote, you will see the option to choose the week day/s, select the days you want and press the OK key to back.

Channel Name: Select the desired channel you wish to record or have your PVR2HD start playing.

5.3 PVR SETTING
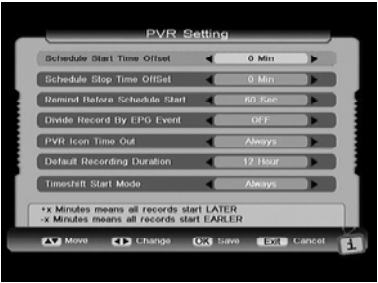
Schedule start time offset: Schedule record or play to start earlier or later. This is to compensate for programs that have an earlier or later than advertised start time.
Schedule stop time offset: Schedule record or play to stop earlier or later.
Remind before schedule start: Remind you before schedule is going to start.
Divide Record By EPG Event: Select on or off.
If set to On, recordings will be broken up to individual entries based on the program name transmitted via the EPG.
PVR Icon Time Out: Select the time that the PVR icon is displayed on the screen by using the ◄► keys.
Default Recording Duration: the default duration for manual record (when you press the REC button on the remote during an ongoing program).
Time shift Start Mode:
The available options are: Never, Always and Pause key. Changing this setting comes into effect after playing a new service (ie. changing channels).

Always: Timeshift, when set to Always ensures that the PVR2HD is always recording in the background. This will allow you to pause, and rewind live TV, as the PVR2HD buffer will have a certain amount of pre-recorded content.

Pause key: If this option is selected, Timeshift will only begin when you press the Pause key on your remote. This is useful when you need to answer a phone call or the door while watching a TV, so that you can resume watching from where you left.

Never: Will disable the time shift feature.

5.4 RECORDING INFO

When there is a recording, you can see the light down left on the front panel blinking. And you can enter the Recording info. If there are no recordings currently in place, there will be a message warning you that there are currently no recordings.

When there is a recording happening and you press the Info button on your remote the recording info box will tell you the recording information as follows:
Index: R1 or R2
Mode: Quick or Schedule
Channel Name
File Name: you can change the name by pressing OK key.
Valid Record Time: the real recording time
Past Time:
Duration: Showing you how long there is left till the recording stops.

5.5 HDD FORMAT

Please be extra careful when using this feature as it will completely erase your hard drive and you will lose any previously recorded content. For security purposes you will be asked to enter the password to confirm your decision (Default password is: 0000).

6. SYSTEM SETTING

In the Main Menu, use the ▲▼ keys to select the System Setting menu item, and press the OK key to enter. This menu consists of five items. You can access the sub-menus by highlighting your selection and pressing the OK key.

6.1 COMMON SET
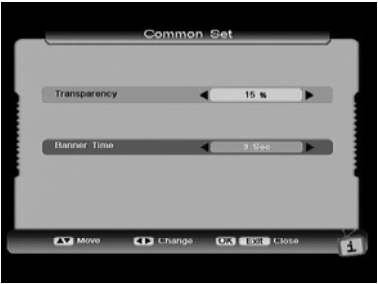
Transparency: This effects the transparency of the closed captions. The value is from 0 to 30%.

Banner Time: Determines the display time of info boxes before they disappear.

After making your selections, press the OK or EXIT key to save and exit.
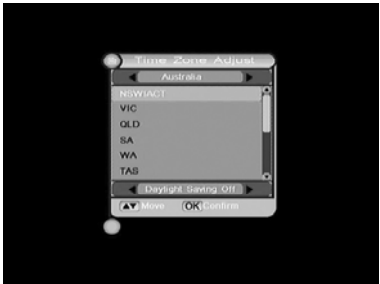
6.2 VIDEO SET

Screen Type: 4:3 or 16:9
Aspect Ratio: Full Screen / Letterbox / Pan Scan
Resolve: AUTO / 1080I / 576P / 720P

6.3 AUDIO SET

Audio Channel Mode: Stereo / left / right
Decoder: MPEG or AC3

6.4 TIME ZONE ADJUST

This screen allows you to adjust the time zone settings to suit your location. Press the ▲▼ keys to change between states and use the ◄► keys to select between "Daylight Saving On" and "Daylight Saving Off" for daylight saving settings.

Press OK or EXIT key to save and exit.

6.5 SYSTEM INFORMATION

The system information screen displays general and version information relating to your hardware and software.

7. SHORTCUT KEY EXPLANATIONS

Your PVR2HD remote comes with dedicated keys to make accessing certain features on your PVR easily accessible. Refer to the following section:

7.1 AUDIO

Press Audio key to display the Audio Selection window.
Press the ◄► keys to switch among **Left, Right, Stereo, and mix**. Select the best audio channel output for the current program.
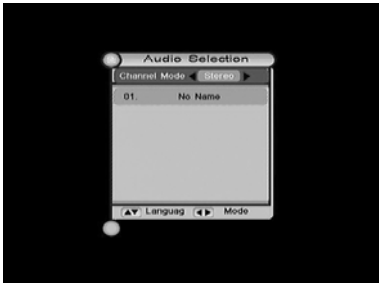
NOTE: The available selections in the audio language dialogue window depend on the channel broadcast. If the service provides several audio languages, use keys to select appropriate language and press the OK key to confirm.

7.2 MUTE

Press the MUTE key on your PVR2HD button to cut off the sound completely; a MUTE icon will

be displayed on the up-right corner of your TV screen. Volume can be restored by pressing the MUTE key again.

7.3 TELETEXT

You can press the CC key on your remote to enter the TeleText or Closed Caption windows. This feature will only become active if the channel broadcast contains Teletext or Closed Captions. To exit TeleText, press the EXIT key. To exit Closed Captions press the CC key again on your remote.

7.4 INFORMATION

When watching a channel, pressing the INFO key button will display a simple EPG dialogue box that includes current and next program information.

Note: The duration of info windows on your PVR2HD can be adjusted to be longer or shorter. Refer to 6.1 Common Set > Banner Time.

An SD or HD icon will also display at top-right corner of this window that will show you whether you are watching a SD or HD channel.

Pressing the INFO key again on this screen will pop up a bigger window showing more details about the current program. By pressing the INFO key again on your remote you can continue reading the next program information. Press INFO key once again to return to the initial view mode.
During the whole operation, press the EXIT key to exit from this window at any time.

7.5 EPG AND EPG SCHEDULE

For more information on EPG, see **2. Program Guide.**

To schedule recordings from the EPG window:
When you select a particular program in the EPG window and press the OK key on your remote, you can enter the EPG Schedule window. This will allow you to assign Recording or Playback tasks based on the selected program– see **5.2.1 Adding Scheduled Tasks** for information on each option.

When you are done with setting up your options, press the OK key on your remote to save your changes, or press the EXIT key to exit without saving.

If you schedule a recording via this method, you will notice a timer icon next to the selected program, indicating it is scheduled to record (or play).

7.6 [FAV] RECALL FAVOURITE CHANNEL

Press the FAV key to recall a stored favourite channel.
Favourite channels are programmed and stored in the Program list menu.
See 3.2 Favourite Edit for more information on setting up favourites.

7.7 [HDD] FILE LIST

Press the HDD key on your PVR2HD remote to view a list of all the recordings available on your PVR.
You can see the used percentage of hard disk space on the bottom left corner of this screen.

Pressing the ◄► keys to change view between group list and file list.
When File list is on focus, its program name, start time and duration will be displayed, and you can operate as follows:
Press INFO key to see the information of this file, when there is no information, it will display "this file has no description." Press the INFO key again to remove this window.
Press the OK key to playback this file.

7.8 PVR ASSIST

The PVR Assist feature is a convenient function that will display all the PVR operation according to the current situation. Press OK key to start a on-screen tutorial from the available list.

7.9 TIME SHIFT

7.9.1 Start Time shift
When Time shift Start Mode is Always, you can press the Red, Blue Key or Pause Key to start it.
When the mode is Pause, you can only start it by pressing Pause Key.
You can't start time shift when the mode is never.
You can change the TimeShift mode in PVR Settings– see 5.3 PVR Settings.

7.9.2 Change time shift speed
After pressing the REW, FF, Slow or Pause keys to change time shift speed, a speed icon will be displayed on the upper left corner of the screen.

7.9.3 Change time shift playing position
Press the Red or Blue keys to display time shift process bar. You can change the time shift playing position.

7.9.4 Stop time shift
Method 1: Press the Stop key to stop time shift and return back to watching the live broadcast.
Method 2: If you switch channels, the time shift buffer for the previous channel will be replaced by the new channel.

7.10 REC

7.10.1 Start record
Press the RECORD key to start recording. A record icon is displayed on the top left part of the screen and the recording light on the front panel of your PVR2HD will start flashing to indicate a recording is in progress.

The record icon displays recording number, duration and recording name. Recording name is in the form of Channel Name-Event Name.

7.10.2 Change recording information
See 5.4 Recording Info for more information on this feature.

7.10.3 EPG record and Common scheduled record
If scheduled EPG or scheduled REC is reached, a new record can also be started. For more information, refer to Scheduled list.

7.10.4 Recording file information
If current recording service has EPG information, recorded file is partitioned automatically according EPG items. Recorded file name is program name, file duration is program duration and file description is program description. If current recording service has no EPG information, recorded file name is channel name and it will not be partitioned.

7.10.5 Stop record
Press the STOP key to stop recording. You will be asked to confirm.

7.11 FILE PLAYBACK

7.11.1 Change file playback speed
Press the REW, FF, SLOW keys to change file playback speed, a speed icon is displayed in the top left of the screen.

7.11.2 Change file playback position
Press the Play, Red or Blue keys to display playback progress bar. You can press the Red or Blue keys to change file playback position.

7.11.3 Display playing file information
Press the INFO key to pop up a bar to show information on the current playback.

7.11.4 Jump file playback time
In the playback progress bar, you can press the number keys on your remote to input a time, then press the OK key or wait for a while, playback will skip to your selected time (if time setting is valid).

7.11.5 Cut out and Save Selected Region

Follow the instructions below to cut out certain sections of your recording.

1. Start playback of a recording.

2. Press the Play, Red, or Blue button on your remote to display the Playback progress bar; press the OK key twice which will bring up the following prompt: **"Please add a start or an end mark position, then confirm to cut!".**

3. Specify your start position with the GREEN key, and your end position with the YELLOW key. Finally, press the OK key to confirm.
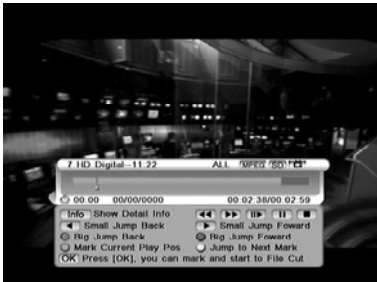
4. Select the OK button to cut or the CANCEL button to cancel the operation.

The bookmark function allows you to quickly jump to specified positions in your recording with the press of a button. Follow the instructions below:

7.12.1 Add a bookmark

To add a bookmark, press the GREEN key at the position you want to add it into the playback progress bar. You can bookmark a maximum 20 positions per recording.

7.12.2 Go to a bookmark
Press the YELLOW key to jump to the next bookmark in the playback progress bar. The file will start playing from the bookmarked position.
7.12.3 Delete a bookmark
To remove a bookmark, you should jump to the bookmarked position by pressing the YELLOW key and then press the GREEN key to delete the bookmark.

SPECIFICATIONS

Tuner	
2 Input Connector	F-type, IEC 169-2
Signal Level Input	-20 ~ +20 dBm
Bandwidth	6 ~ 8 MHz Auto Software Setting
Input Impedance	75 Ohms
Carrier Mode	2K / 8K
FEC Code Rate	Auto(1/2,2/3,3/4,5/6,7/8)
Compliant	Fully DVB-T MPEG-2 Compliant
Constellation Auto	(QPSK,16 and 64 QAM)
Guard Interval Modes	1/32, 1/16, 1/8, 1/4
Transport Stream	ISO13818-1, 2 * MPEG-2, MP@ML
Mpeg transport stream & A/V decoding	
Compliant	Fully DVB-T MPEG-2 Compliant
Record Stream	@ 4Mbps Stream
Aspect Ratio	4:3, 16:9 Letter Box
Video Resolution	1920*1080i MAX
Audio Decoding	MPEG layer I and II
Audio Mode	Single / Dual Channel, Stereo, Joint Stereo
Audio sampling frequency	32, 44.1, 48KHz
Microprocessor & Memories	
Main Processor	STi7100
CPU Clock	200 MIPS
Flash Memory	8 Mbyte
SDRAM	32 Mbyte*4
Data Port	
Connector	9 Pin D-Sub type
Protocol	RS232 asynchronous
Data Rate	Max. 19.2 kbps
RF Modulator	
Connector	IEC 169-2, Male / Female
Frequency	47 MHz to 862 MHz
TV Standard	PAL/NTSC
LNB power supply	13V/18/OFF, Imax=400mA
Front Panel	

4 Digits LED Display	Channel Number Display
8 Keys	Standby, Menu, Select, Exit, Channel , VOL
Rear Panel	
IF Input	F-type Connector
IF Loop Through Output	F-type Connector
TV output	YPbPr/CVBS, Audio L/R
HDMI output	HDMI
Digital Audio Out Modulator	S/P DIF or AC-3 Optical
RS232 Serial Port	9 Pin D-sub Type
Remote Control	
Type	Infra-red (Carrier Freq: 38 KHZ)
Battery	2×1.5V AAA Type
HDD	
HDD	320GB, Recording up to 120 hours (@4Mbps) SD, 75hrs for HD

TROUBLE SHOOTING

The table below covers some of the more common reasons for abnormal PVR function.

Problem	Likely Causes	Remedy
Can't record 2 channels	The RF Cross over lead is not connected	Connect the supplied Cross over lead from RF Loopout 2 to ANT In 1.
Front LED's do not light	AC power cord disconnected	Connect power cord properly to the power socket
No picture or sound	Connection of Video or Audio to input terminals is incorrect.	Check your choice of AV or RF is right. Check each AV lead at each end.
	Antenna cables incorrectly connected	Check the RF path from antenna through both tuners to modulator and RF OUT
	Antenna not delivering clear signal	Check cable connections, or adjust the antenna
	No signal or weak signal	Call an antenna specialist from local paper or similar.
	Wrong Channel Information in menu	Type values again carefully
Black and white screen or V-Hold	Your TV or PVR picture mode does not match broadcast	Check that screen shape best matches your screen and PAL B/G is selected.
Your remote Control Unit is not working	Battery exhausted	Replace remote batteries with new ones
	Fluorescent light interfering with remote control signals	Switch light Off
	Remote control is incorrectly aimed	Point front of RCU carefully towards PVR.
Distorted Menu Screen	Brightness or Contrast level of TV set too high	Adjust Brightness and Contrast to lower levels
Not working	Processor stopped	Remove the power cord or switch AC OFF and ON

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 retailers 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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