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1. General Information

Personal video recorders (PVRs) are devices that receive digital terrestrial broadcasts and allow you to record programs onto the in-built hard drive. The PVR will replace your VCR and your digital receiver as a single, easy to use unit.

In case you experience any difficulties in use of this product, please consult the relevant section of this manual.

2. Features

- Fully DVB-T & MPEG-2 compliant
- Wide screen 16:9 and normal 4:3 Aspect Ratio.
- Teletext and closed caption (CC) compatible.
- 5000 Editable Channels
- Easy installation or detailed manual settings
- Parental Lock Control
- Electronic Program Guide
- RF modulator for TV standard (PAL B/G, NTSC)
- Digital Audio Output S/P DIF
- Component video output
- Firmware upgrade via RS-232 serial port
- PAL/ NTSC conversion
- Standby mode with low power consumption
- 65536 Colour Graphic Firmware upgrade via RS-232 serial port
- Picture-in-picture (PIP) and picture-in-graphic (PIG)

-
- 160GB HDD gives around 80 hours recording time.
 - Time shift (buffering): 2~12 Hours (Dependent on HDD)
 - Recording Time: up to 125 Hours (Dependent on HDD)
 - Variable Forward / reverse Play Speed
 - Region Selection for Replay
 - Watch and Recording different channels simultaneously with PIP
 - Timer recording

3. FOR YOUR SAFETY

- Do not open the cover. It may cause malfunction or electric shock and will void warranty.
- If you plan not to use the product for a long time, please remove the unit from the power outlet.
- Do not use device if the power cord becomes damaged in any way, as it may cause fire or electric shock. Contact your authorised repairer for assistance.
- Do not cover the product or place anything heavy on the product, ensure there is clear space around the product for sufficient ventilation.
- Avoid using sprays or liquid materials around the product. Avoid foreign materials entering the unit.

4. ACCESSORIES

Please check the following accessories are enclosed

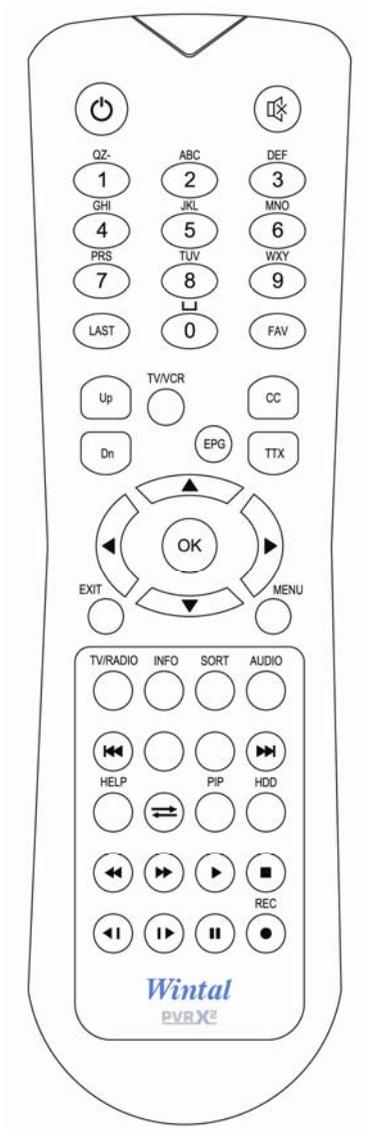
- User Manual x 1
- Remote Control Unit x1
- Batteries x2
- AV leads x1
- Mini RF tuner connector lead x1
- Software x1

Note: If any of the accessories listed above are missing, Please

contact the sales outlet where this product was initially purchased.

OVERVIEW

1. REMOTE CONTROL



NAME	FUNCTION
TV/RADIO	Toggle between TV and radio services.
	Mute On/Off
0~9	Change channel directly, Inputs numbers and letters in certain fields.
LAST	Return to previous channel.
	Swap from main picture to sub-picture on PIP
PIP	Turn on Picture In Picture
MENU	Enter main menu or exit menu.
OK	Show channel list, Confirms selection
VOL	Volume down/up, Changes the value of a selected item
EPG	Electronic program guide
Green key	Change PIP sub-picture size.
	skip backward 1 minute in playback mode
	Fast Rewind (1x, 2x, 4x, 8x, 12x) or start timeshift
	Fast Forward (1x, 2x, 4x, 8x, 12x)
	Slow Rewind(1/2x, 1/4x, 1/8x,1/12x) or start timeshift
	Slow Forward(1/2x, 1/4x, 1/8x,1/12x)
	Skip forward 1 minute in playback mode
AUDIO	Select audio mode (Stereo, left only and right only). Select language where available
	Turn receiver On/Off.
SORT	Sort channel list in numerical or alphabetical order
CC/TTX	Display Closed Captions where available or Teletext (ch 7 only)
HELP	Display help menu
INFO	a) Show channel information, such as channel number, channel name and simple EPG. b) Show information of the current playback file.
	a) Views the text information if the transmitting stream includes text data

	b) Execute page up function in the menu
HDD	Enter recorded files list for playback / deletion.
	a) Switch between TV and VCR modes. b) Execute page down in the menu.
EXIT	Moves back one level in the menu
	Channel up/down, Moves the cursor up / down in menus
	Volume down/up,
FAV	Enter favorite program list / exit favorite program list.
	Change PIP sub-picture position.
	Start Playing / Release Pause
	Stop Recording
	Start Time shift or pause playback
	Start Recording

Operation

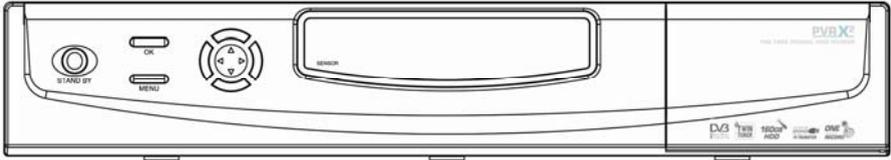
Within menu's, select an item by using up and down.

Change the value of the highlighted (selected) item by following on screen directions.

Press OK to enter sub-menus.

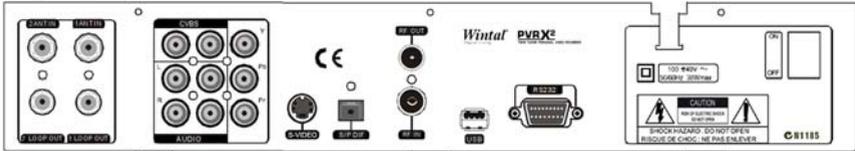
Return to normal viewing at any time by pressing the menu key from the menu mode, all changes are saved as you change them.

2. FRONT PANEL



NAME	FUNCTION
STAND BY	Puts unit on stand by.
MENU	Enter or exit main menu screen.
◀▶	adjust volume up and down
▲▼	Adjust channel up and down
OK	Show channel list, confirms selection

3. REAR PANEL



NAME	FUNCTION
1 LOOP OUT	Connect to 2 ANT IN for true dual tuner operation.
2 LOOP OUT	IF Loop through output to TV / VCR etc.
Y Pb Pr	Component video output. Highest quality output, recommended where available.
L-AUDIO	Left analogue audio output, to TV / AMP
R-AUDIO	Right analogue audio output, to TV / AMP
CVBS	Standard definition video output, connect to TV video input
RS232	Serial port used for firmware upgrade
2 ANT IN	Connect to separate terrestrial antenna (or 1 loop out)
1 ANT IN	Connect to terrestrial antenna.
S/P DIF	Connect to amplifier or TV for high quality digital audio (Recommended where available).
RF OUT	Output to TV (moderate quality)
RF IN	Connect to antenna if looping through.
ON/OFF	Main power switch
USB	Connect to PC via USB to copy programs

CONNECTION DIAGRAMS

Important Note: in all cases connect **1 ANT OUT** to **2 ANT IN** using the small supplied RF cord. This will share the antenna between the two tuners.

Initially, check which connections you have on your television / amplifier.. First find out which is the best quality connection to use from the tables below and then connect according to the diagrams below.

We have described connections into two steps, picture and sound.

Picture

Cable	Description	Quality of picture
1.RF (antenna) lead	Antenna cable	Poor (includes sound)
2.CVBS / composite (included)	Yellow lead	Moderate
3.S-Video	Circular 5 pin	Good
4.Component	Red green and blue	Best

Sound

Cable	Description	Quality of sound
1.L / R audio (included)	Red and White	OK
2.Optical audio (SPDIF)	Clip in connector	Best

Always use premium quality cables possible for the best picture /sound.

WARNING: TURN OFF ALL DEVICES BEFORE MAKING CONNECTIONS. FAILURE TO DO SO MAY RESULT IN ELECTRIC SHOCK.

STEP 1: PICTURE CONNECTION

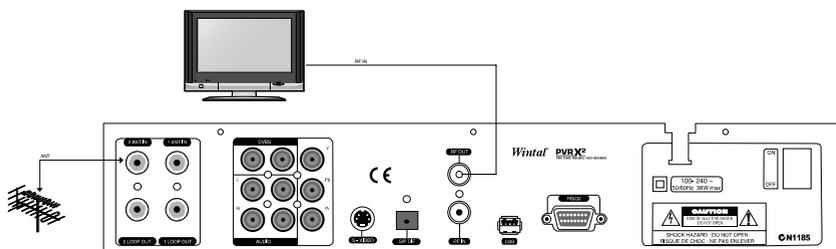
Connect one of the following:

1. PVRX2 to TV with RF (Lowest quality)

Connect the TV antenna to 1 ANT IN using an RF lead.

Connect TV OUT to the RF INPUT of the TV set.

Turn on and Search on the TV set for UHF Channel (see TV manual for details on how to search).



OR

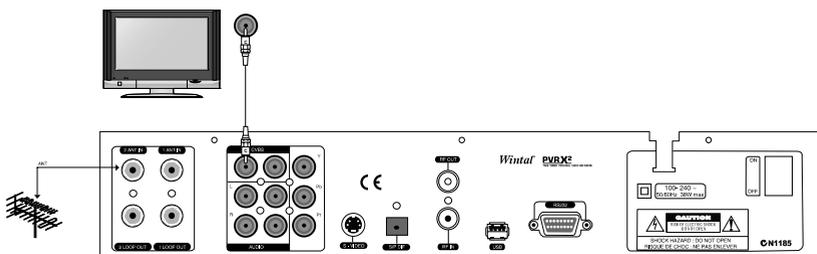
2. PVRX2 to TV with CVBS composite Video cable (Moderate quality)

Connect the TV antenna to 1 ANT IN using an RF lead.

Connect any CVBS video out on the PVRX2 to any free Video inputs (yellow, eg AV1) of the TV set, taking note of which AV input you connect to.

Turn on and Select the connected AV input on your TV (e.g. AV1)

(Consult your TV manual for instructions on how to do this)



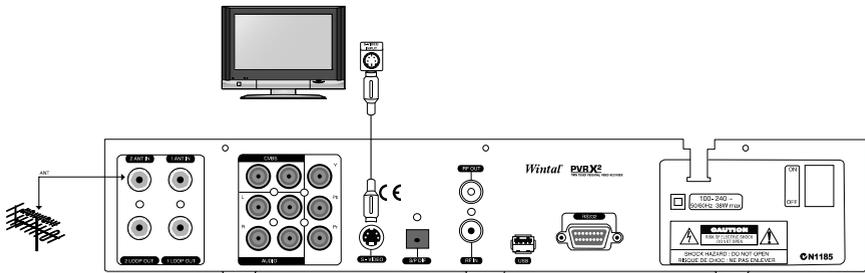
OR

3. PVRX2 to TV with S-Video cable (Good quality)

Connect the **TV antenna** to **1 ANT IN** using an **RF lead**.

Connect the **SVideo** of the PVRX2 to a free **Svideo in** on the TV set, taking note of which AV input you connect to.

Turn on and Select the connected AV input on your TV (e.g. SVHS1, AV2)
(Consult your TV manual for instructions on how to do this)



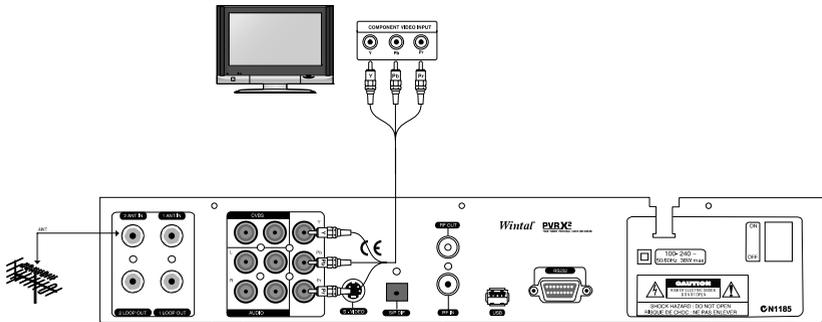
OR

4. PVRX2 to TV with component video cables (Best quality)

Connect the **TV antenna** to **1 ANT IN** using an **RF lead**.

Connect **Component Video Leads** (red green and blue) to the **component input** of the TV set, taking note of which AV input you connect to.

Turn on and Select the connected AV input on your TV (e.g. AV4, YPbPr)
(Consult your TV manual for instructions on how to do this)



STEP 2: AUDIO CONNECTION

Connect one of the following:

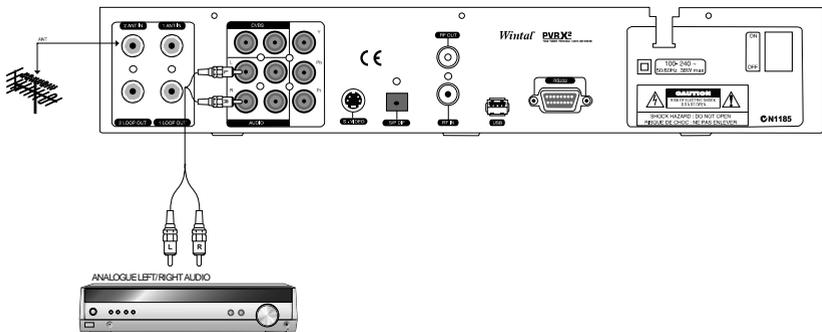
1. PVRX2 to TV or AMPLIFIER with LEFT / RIGHT AUDIO

Connect from **either pair of L / R (red / white)** on the PVRX2 to either:

For audio through TV: The **L/R in** on the same AV input as you connected the video lead(s). (Consult your TV instructions for more details)

or

For audio through an amplifier: The **L/R in** on a free channel on your amplifier. **Select** the channel used on your amplifier. (Consult your amplifier instructions for more details)





OPERATION

1. Channel Manager

1.1 Channel Edit

From this menu, you can edit TV, Radio channel and favorites names.

If you press **OK** button on a channel for both TV and Radio, the following options appear to be selected with the colour buttons.



Move, Lock, Delete, Delete All

1.1.1 How to select the channel

- 1) Use **▲▼** to select the appropriate channel.
- 2) You can select the channel by pressing the numeric keys.

1.1.2 How to move the channel

- 1) After selecting the channel you want to move, press **RED** and the focus will jump to the destination.
- 2) Move the selected channel to the new position by using **▲▼** or the numeric keys.
- 3) Press **OK** to place the channel.

1.1.3 How to lock / unlock a channel

- 1) Select a channel that you want to lock and press **GREEN**.
- 2) This channel is now locked and a symbol “**🔒**” will be shown beside the channel. A password (default: 0000) is now required to watch this channel.
- 3) Pressing **GREEN** again unlocks the channel, after the correct password (default: 0000)

1.1.4 How to delete a channel

- 1) Select the channel you want to delete and press **YELLOW**.
- 2) Press **BLUE** to delete all channels in the current group.
- 3) When you exit, you are requested to input the password (default: 0000) to confirm deletion.

1.2 Channel Favourite

The channel favourite menu allows you to create a group of your favourite channels, which you to call up easily by pressing

FAV

- 1) Press **FAV** to create a favorite group
- 2) Select the channel you want to add to the list and then press **OK**.



- 3) The selected channel will be shown in FAV1 list

To delete a channel from favourites, select the channel in the FAV1 list, and press **OK**. The deleted channel will be removed from the list.

You can change FAV group's name by pressing **BLUE**, then using the on screen keyboard to enter a new name.

To select a channel from the playback list, press **FAV**, then select the desired channel.

1.3 Direct Button Play

Direct button play allows you to assign a channel to each colour key. Select the channels you wish to assign for each colour button, then to recall a channel, simply press the corresponding colour key.



2. HDD

2.1 Recorded Files Edit

You can lock, delete and rename recorded programs

Lock: Press **RED** on the selected file, the program needs a password to playback (default: 0000).

Delete: Select a recorded file you want to delete, and press **YELLOW**.

Rename: Press **BLUE** to display a keyboard to edit the filename.



2.2 Schedule Recording

You can Schedule Recordings if you do not want to miss certain programs.

Press **GREEN** to add a scheduled recording.

When setting a Scheduled Recording, there are a few parameters that need to be set:

Record Task: The default value is set at 'open'.

Record Start Time: Input program start time with numeric keys.

Record End Time(hh:mm): Input finish time with numeric keys.

Record mode: Once / Daily / Weekly.

Weekly: If the record mode is set to weekly, choose which day the program is on.

Event Alarm: Will alert you when the recording starts if set to 'on'.

Channel No: Select the Channel the program is on..

Channel Name: displays the channel name.



Current time: displays the current time, ensure that this is correct.

When finished, press **GREEN** to store the scheduled recording.

To delete a scheduled recording, press **BLUE**.

To modify a scheduled recording, select the recording and press **OK**.

Press **EXIT** or **MENU** key to exit.

2.3 PVR Setting

Teletext Background Color: Press ◀▶ to select the colour you want.

PVR Icon Time Out: Select the time that on screen menus are displayed on the screen by using ◀▶.

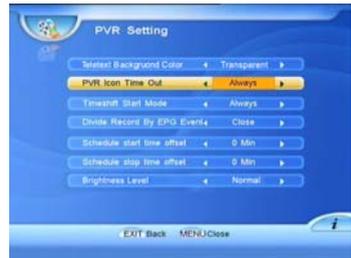
Timeshift Start Mode: Select if you want Timeshift to start always, never, or only when you press the pause key.

Divide Record By EPG Event: To split recordings when a new program starts (according to the EPG), select 'on'.

Schedule start time offset: You can set a recording to start earlier or later (than the scheduled time) to compensate for programs starting earlier. This will apply to all scheduled recordings.

Schedule stop time offset: stop scheduled recording earlier or later.

Brightness Level: Press ◀▶ to adjust the brightness level.



2.4 HDD Format

To completely erase the hard disc and stored recordings, input password 'default: 0000' to format the HDD.

3. Installation

3.1 Auto Search

Select this feature to complete an automatic scan, finding all available channels and storing them in memory. This is sometimes necessary if you move house or new channels are established.

While running **Auto Search**, the system begins to search programs using a preset channel plan. As DVB-T channels are found, the program search results are displayed. A bar at the bottom of the window reflects the signal quality of each frequency as it scans.

When the search is completed, the TV and Radio programs found will be added to the program list and arranged under categories.



3.2 Manual search (for advanced users)

Only Use **Manual Search** if you are familiar with the relevant parameters.

In Manual Search mode, only one RF channel is added at a time.

Channel NO: Press ◀▶ to select with channel you wish to search for. **Frequency**

(KHz): This value varies the according to the Channel no. being tuned, however, it can also be adjusted using the numeric keys.

Band Width: Select 7MHz, 8MHz or 6MHz.

NIT: By pressing ◀▶ keys, you can switch NIT ON or OFF.

LCN (Logical Channel Number): By pressing ◀▶ keys, you can switch LCN ON or OFF. If LCN is ON, then all the channels will be listed according to their logical channel number.



Press **OK** to start **search**, discovered channels will add to the channel list.

3.3 Frequency Edit (for advanced users)

This menu allows you to scan, delete, add and edit frequencies of transponders used during searches.

1) To scan a particular frequency

Select a frequency you want to scan and press **RED**. This will add any channels found to the channel list.



2) How to delete a frequency

Select a frequency you want to delete, and then press **BLUE**. The selected frequency will be removed from the list.

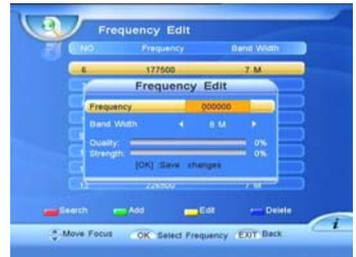
3) Add frequency

Press **GREEN** to enter the frequency edit window. Set **Frequency** and **Band Width** values and press **OK** to add to the list.

4) Edit frequency

Press **YELLOW** to enter the frequency Edit window. Adjust as (3), above.

Press **EXIT** or **OK** and the new transponder information is stored.

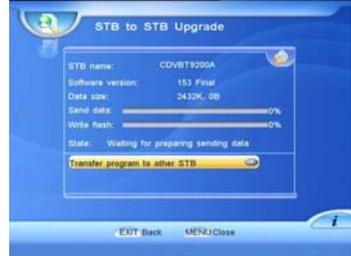


3.4 STB to STB Upgrade (for advanced users)

You can transmit firmware data from one PVRX2 to another.

3.4.1 Select upgrade data type

You can transmit program default data or application (firmware) data to another PVRX2.



3.4.2 Prepare sending data

After selecting the data transfer type, the STB is ready to send data. Before starting transmission, you can cancel sending.

3.4.3 Sending data

When the host STB is ready to transmit, connect a RS232 cable between the host and target STB, then reboot the target STB. Then the data transmission will begin.

Warning: DO NOT power off or disconnect cable while transmitting data.

4. User Setup

4.1 Timer Setting

The PVRX2 can be set up to turn ON/OFF at different times of the day.

Timer No: select one of 8 different timers to edit, or select close. If close is selected, timers will not run.

Timer mode: Once / Daily / Weekly.

Weekly: If timer mode is set to weekly, choose a day for the timer to run on.

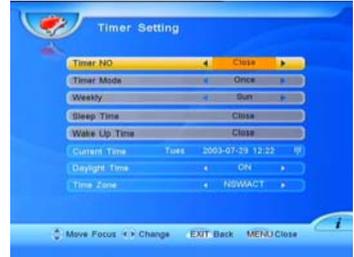
Sleep Time: Set using numeric keys or select close.

Wake up Time: Set using numeric keys or select close.

Current Time: displays current time.

Daylight time: Turn on or off daylight savings time.

Time zone: Change time zone specific for your area.



4.2 Password setting

You can adjust the password (default: 0000) used for locking Channels and Recordings by inputting the old password and entering a new password of your choice.

4.3 General Setting

4.3.1 Scart Output

The selection is unavailable. (SCART is a European setting not used commonly in Australia)

4.3.2 Menu Language

Select the desired language.



4.3.3 Menu opacity

You can adjust the transparency level of the menu by using ◀▶.



4.3.4 TV mode

Select the compatible TV mode for you television, PAL, NTSC or Auto. If you are unsure, the Auto is best used for Australian TV's.

4.3.5 Aspect ratio

Set the TV aspect ratio (4:3 for normal TV & 16:9 for widescreen TV) by pressing ◀▶.

4.3.6 Aspect Mode

If you have a standard, non-widescreen 4:3 TV and the transmission is in 16:9, You can adjust whether you want to fit the whole image on screen with black bars above and below (LETTERBOX) or to crop the image, but have the whole screen filled (PANSCAN)

4.3.7 Time out

You can adjust the time the channel information box stays on screen after no buttons are pressed.

Time out values available are 2,3,4,5 seconds & never.

4.3.8 UHF Type

PAL-G, PAL-I, PAL-K, NTSC is supported. You can adjust the modulator output type by pressing ◀▶. (PAL-G recommended for Australia)

4.3.9 UHF Channel:

If you are connecting to your TV using the antenna cable, you can adjust the channel to tune your TV into from channel 21 to channel 69.

4.4 Factory Default

To restore the unit to original shipping conditions, enter the password (0000). To cancel, press **EXIT**



5. Information

5.1 System Information

This menu shows information regarding the unit, such as model name, release date, version and HDD size of the PVR.

5.2 Channel Information

You can check current channel information in the menu.



6. General Viewing Function

6.1 Channel List

You can view the channel list by pressing the **OK**.

You can sort the channel list by pressing **SORT**.

If channels are sorted alphabetically, you can use the alphabet buttons on your remote control to select the channel.

To watch another channel, move the cursor to the channel you want by using **▲▼** / **UP** **Dn** or the numeric keys and press the **OK** button.

If favorite channels are saved, change from the TV channel list to favorite list by pressing the **FAV** button.

You can press the **TV/RADIO** button to change from the TV channel list to the radio channel list.

You can exit from the channel list menu by pressing the **EXIT** button.



6.2 Program Guide

6.2.1 EPG 1

NOTE: EPG (electronic program guide) is only available or has limited functionality in some countries.

EPG will display title and start time of current and future programs. Press **EPG** to bring up the guide, to watch TV in full screen, press the **EXIT** button.

In the EPG, use **◀▶** to switch between channels in the current group.

Press **▲▼** to change programs. You can get the next days EPG by pressing the



GREEN button and get the previous days EPG by pressing the **BLUE** button.

The program description is in the bottom right corner. If this content is more than one page, you can press **UP** **Dn** to move to the next page.

Press the **OK** button to reserve the selected program.

Press the **YELLOW** button to enter Scheduled Programs list which displays all reserved programs.

Press the **RED** button to toggle EPG to another style (EPG 2).

6.2.1 EPG 2

Press **▲▼** to move the channel focus.

Press **◀▶** to see the previous or next program for the channel.

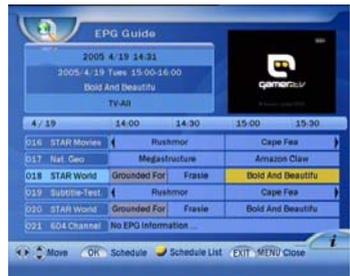
You can reserve programs in the menu. First select the program that you want to reserve, then press the **OK** button. If the selected program has been scheduled, the screen will display a message box with “This program has been scheduled. If you want to delete, please press OK key”. Then choose the booking mode.

If program is booked successfully, a clock icon is put on the top left where detailed program information is displayed.

Press the **YELLOW** button to edit all booked items.

Press the **INFO** button to show the description of selected program.

Press the **RED** button or the **EXIT** button to toggle EPG to another style (EPG 1).





6.2.2 Scheduled Programs list

See 2.2 “Schedule Recording”, above.

6.3 Recall a favourite channel

Press the **FAV** button to recall a stored favorite channel.

6.4 Audio setting

Press the **AUDIO** button to set audio mode (Stereo, left only and right only). Select language in case of multilingual program.



6.5 Switch AV\TV.

Press the **TV/VCR** button to switch AV\TV.

6.6 Open Teletext / Subtitle (Closed caption)

Press the **TTX** button to Open Teletext.
(usually from channel 7)

Press the **CC** button to Open Subtitle.



6.7 Open Channel Bar

Press the **INFO** or **▲▼** arrow button to open the channel bar. When channel bar is open, press the **INFO** button to show the description of the current program.



6.8 Time shift

6.8.1 Start time shift

Time shift allows you to rewind live television, even if you haven't been recording the program. Time shift automatically records up to an hour ago, that can be rewound, fast forward and paused.

Press  to display the time shifting progress bar.

If you can't start time shift, please confirm Time shift Start Mode is set to Always or Pause in **PVR Setting** menu.

6.8.2 Change time shift speed

After pressing  /  /  /  /  or  to change time shift speed, a speed icon will be displayed on top left of screen.

6.8.3 Play live service while time shift

Press the **PIP** button to pop up the PIP window which plays the current live service.

6.8.4 Change time shift playing position

Press the , **RED** or **BLUE** button to display time shift process bar. You can change time shift playing position.



6.8.5 Stop time shift

Press the  button to stop time shift and return to live TV.

6.9 PIP (Picture in picture)

6.9.1 Open PIP

Press **PIP** key to pop up a small window which play current service on up right of screen.



6.9.2 Change PIP size

Press the **YELLOW** button to change the size of PIP window.

6.9.3 Change PIP position

Press the **GREEN** button to change the position of PIP window.

6.9.4 Swap PIP

Press  to switch between main window and PIP

6.9.5 Close PIP

Press **PIP** button again to close PIP window

6.9.6 Change service in PIP window

Press **OK** key to display channel list. Press **PIP** key to play selected service in PIP window.

6.10 RECORDING

6.10.1 Start recording

Press  to start a recording, a record icon is displayed on the screen.

The record icon displays recording details, such as duration and recording name. The default recording name is in the form of Channel Name-Event Name. You can then change the channel and watch another program while the first one is still recording.



6.10.2 Record second channel

You can record another channel while recording a first. While already recording, select the channel you wish to record with Press  the record button again to start the second recording.

6.10.3 Change recording information

While on the channel that is recording, pressing **OK** will enter the change recording information window. You can change recording duration and the recording file name.



6.10.4 EPG record and Common scheduled record

If whilst recording, a scheduled record is due to start, a second recording will begin. For more information, refer to **Scheduled Programs list** and **Schedule Recording**

6.10.7 Stop record.

Press **STOP** to stop the recording. You will be asked to confirm this.

6.11 File playback.

6.11.1 Choose file on HDD to play

Press **HDD** to bring up file list. You can use **▲▼**, **UP** **Dn**, **◀▶** or numeric keys to select the file. Press **the OK button** to play selected item



6.11.2 View recorded file description

Press **INFO** button to show description of selected item.

6.11.4 Change file playback speed

Press **◀▶**, **◀▶**, **⏪**, **⏩**, **▶** or **⏸** to change file playback speed, a speed icon is displayed on the upper left hand side of the screen

6.11.5 Change file playback position

Press **▶**, **RED** or **BLUE** color key to display playback progress bar. You can press **RED** or **BLUE** color key to change file playing position.

6.11.6 Display playing recording information

Press **INFO** to pop up a bar to show current recording information

6.11.7 Play live TV while playing recording

Press **PIP** button to pop up PIP window which displays the current live TV. You can press the **OK button** to popup all services and press **PIP** to play the live service.

6.11.9 Stop current file playback

Press  to stop file playback and return to live TV.

6.11.10 Start playback while recording

You may playback another file while recording as per normal.

6.11.11 Jump recording playback time

In the playback progress bar, you can use the number keys to input a time to jump to, then press **OK** to jump.



6.11.12 Bookmark

You can jump to a certain position in a recording directly using the bookmark function.

1) To Add a bookmark

To add a book mark, press **GREEN** at the position you want. You can add 20 bookmarks for each recording.

2) To go to a bookmark

Press **YELLOW** to jump to the next bookmark in the recording.

3) To delete a bookmark

To remove a book mark, jump to the bookmark by pressing **YELLOW**, then press **GREEN** to delete the book mark.

7. PVR Help

7.1 Select PVR help topic

Press **HELP** to enter the help mode.

To Select a PVR help topic, use ▲▼

Topics include: Recording, Time shift, File playback, PIP, All PVR Function. Press **OK** to display topic.

Press **EXIT**, **MENU** or **HELP** to Exit.



7.2 Show help info.

Press **OK** key to switch display mode between manual and automatic. In manual mode, pressing ▲▼ will move though help for the different keys. Automatic mode will cycle through the keys for you.

Press **EXIT**, **MENU** or **HELP** to Exit.



8. Using the supplied software.

This unit comes with supplied software that will allow you to playback recordings made on the unit on your home PC.

8.1 Connecting the unit

Connect the PVR to your PC via a “USB A plug to USB B plug” lead, (available from most PC/electronics stores). Your PVR will display USB mode on screen, and on your PC, the following screen will appear:

Select cancel.



8.2 Installing the software

To install the software, insert the provided disc into your computer. If Setup does not automatically begin, you will need to run the setup file manually. Open the disc drive and run the file “PVR_Player 1.0.1_Setup.exe” from the disc to begin setup.

Follow the directions on screen to complete setup.

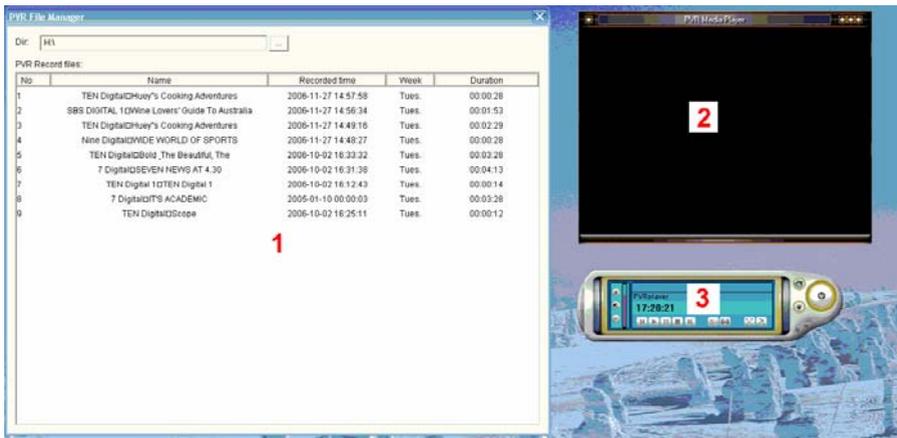
8.3 Run the software

If the programs PVR File Manager, PVR Media Player and PVR recorded file player are not already open, open them from the programs folder (Start, All programs, PVR player 1.01)

There are two programs in the PVR suite:

fileman.exe – a handy file manager for retrieving the files off the PVRX2
PVR player 1.01 – Media player for playing the PVRX2 files.

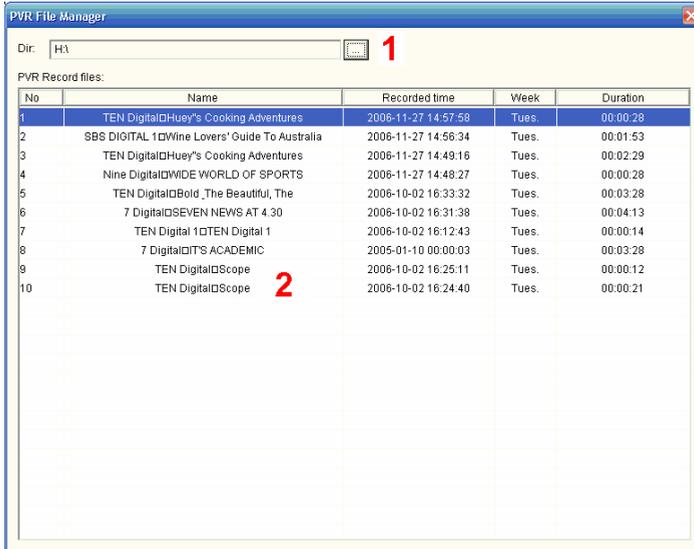
Once the software is loaded, your screen should look something like the following:



1. PVR file manager
2. Viewing window
3. Player transport

8.3.1 PVR file manager

PVR file manager allows you to copy or move files to and from the PVRX2.



1. Directory. This is the directory where File manager looks for the PVR files. Select either the PVR, or a directory on your hard disc where you have stored files (for instance, my movies in my documents) click on the button to change this folder.

2. Recordings. These are the stored recordings in the directory. Right click on any recording to bring up a list of operations.

Copy to.... Will copy the file to a destination of your choice.

Move to.... Moves the file off the PVR to your destination.

Delete..... Removes the file from the PVR

Info..... provides information about the recording.

8.3.2 PVR Player



1. Folder. Press this button to choose the folder where you have stored your recordings. It is recommended to playback recordings from your hard drive, rather than off the PVRX2 directly. Once you select a folder, available recordings are displayed in the drop down, PVR recorded file list. Also see 6
 2. Transports. Play, fast forward, rewind etc
 3. Volume up / down
 4. Audio setting. Click to change from stereo to mono.
 5. Full screen mode. Press this to make the viewing window full screen. Double click on screen to revert to window mode.
 6. Folder expand / contract
 7. Exit. Close down the program
 8. The viewing window. You can resize it by clicking and dragging on the corners and go full screen with 5.
- Note: any buttons greyed out are unavailable.

9. Specifications

Common Interface	
PCMCIA	2 Slot: Type 1 or type 2 DVB common interface standard
Tuner / LNB	
2 Input Connector	F-type, IEC 169-24
IF Input Frequency	950MHz to 2150MHz
IF Loop through out	950MHz to 2150MHz
If Frequency	Zero-IF
Input Level	-65 dBm ~ -25dBm
LNB Power	13/18V DC 500mA Max
Band Switching	22KHz Tone
System Rate	2 ~ 45 Msps (SCPC, MCPC)
Viterbi Decoding Rate	1/2, 2/3, 3/4, 5/6, 7/8
Reed Solomon Decoding	FEC:204,188. t=8
Mpeg transport stream & A/V decoding	
Demultiplex	According to ISO/IEC 13818-1
Input Stream	Max, 90Mbit/s
Aspect Ratio	4:3, 16:9
Video Resolution	720×576
Audio Decoding	MPEG layer I and II
Audio Mode	Single / Dual Channel, Stereo, Joint Stereo
Sampling Frequency	16/22, 05/24/32/44, 148KHz
Microprocessor & Memories	
Main Processor	EMMA2
CPU Clock	200 MIPS
Flash Memory	4 Megabit
SDRAM	32 Megabit
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	470 MHz to 860 MHz
Output Channel	CH 21-69
TV Standard	PAL DK/BG/I/M
Preset Channel	CH38,Changeable by menu screen
Front Panel	
4 Digits LED Display	Channel Number Display
8 Keys	Power, Menu, Select, Exit, Channel , VOL
Rear Panel	
Rf Input	Female pal-type socket
IF Loop Through Output	Male pal Connector
TV Scart	RGB, CVBS, Audio L/R
VCR Scart	CVBS, Audio L/R
3 Phone (Cinch)	Video, Audio L, Audio R
Digital Audio Out Modulator	S/P DIF or AC-3 Optical black rca socket on back panel.
RS232 Serial Port	9 Pin D-sub Type for firm were up grade
Remote Control	
Type	Infra-red (Carrier Freq: 38 KHZ)
Battery	2x1.5V AAA Type
HDD	
HDD	From 20GB to 160GB note: actual hard drive size will be less, the system allocates a portion for the buffer.
Interface	USB Ports
Others	
Input Voltage	AC 90-250, 50/60Hz
Power Consumption	Max. 38 Watts
Standby Power	Less than 5 Watts

10. Trouble Shooting

Problem	Possible Causes	Remedy
No picture of sound	Incorrect audio and video setup	Make sure you have connected your PVR following the instructions on Setup
	Incorrect antenna connection	Make sure you have connected the antenna to the correct input on the back of your PVR
	No signal, or weak signal due to poor signal strength	Ensure that your antenna is functioning properly. Contact your antenna installer if all else fails.
	No signal or weak signal	Bad weather conditions like storms or lightning may cause a loss in signal quality.
Black and white picture	AV cables may not be installed correctly	Make sure you your connections set up according to the instructions in this manual and also ensure cables are firmly connected to your TV and PVR
Remote control not working	Battery may be flat	Replace the batteries on your remoter
	Too far from sensor	Come closer to the sensor located on your PVR
	Battery is installed incorrectly	Make sure the batteries are installed correctly
Distorted TV picture	Your hi-fi speakers are to close to the TV	Magnetic distortion can be caused if speakers are placed too close to a TV set
Recording stops playing prematurely	A signal break up may have caused the program to stop recording	Bad weather may have caused the PVR to receive a weak signal that resulted in the recording being stopped.
Cannot record 2 channels	The RF crossover cable is not connected	Ensure that you have the included RF crossover cable connected from the loop out 1 output to the Ant 2 input on your PVR

FIRMWARE UPDATE PROBLEMS

Unable to establish connection between computer and PVR using the RS-232 Serial Port

If you are not able to establish a working connection between your PC and PVR, make sure you have the communications port settings on your PC set up properly.

You need to change the settings on your COM1 port using the device manager in windows.

Make sure the bits per second is set to 115200 (right click on my computer -> manage -> device manager -> ports (COM & LPT) and check the port settings tab in the properties window of COM1)