

PVR-XIO

Personal Video Recorder



Wintal



SAFETY INSTRUCTIONS

About this manual

Please observe the following safety instructions carefully before putting the unit into operation. Take note of the warnings on the unit and in this manual.

Always keep the instruction manual near at hand. If you sell or pass on the product, make sure you include this manual together with the unit.

Electrical devices do not belong in the hands of children!

Do not let children use electrical devices unattended.

Swallowing batteries could be fatal. Always keep the unit and any batteries inaccessible to young children. If a battery has been swallowed, consult a medical doctor immediately.

Also, keep any plastic packaging out of the reach of children to avoid danger of suffocation.

Setting the product up safely

Choose a flat, firm surface to set the product up on. Make sure that:

- the ventilation slots are not covered (ensure at least 10cm distance from any walls)
- no foreign bodies or fluid gets into the unit (e.g., do not place vases on the unit)
- the unit does not come into contact with dripping water, splash water or humidity,
- the unit is not exposed to sunlight or other direct heat (e.g. from radiators)
- no open fire sources, such as candles, are placed on the unit

Keep the mains connections accessible

Connect the unit to an easily accessible power socket (90 – 265 V ~ 50/60 Hz) close to the unit. In case the unit has to be disconnected quickly, the plug has to be within easy reach.

In order to avoid tripping, do not use an extension lead.

Do not carry out repairs

In case the power supply cord or the unit is damaged, pull out the AC mains plug immediately.

Under no circumstances should you attempt to open or repair the unit yourself. There is danger of electric shock!

Your PVR-X10 has passed inspection and testing before leaving the factory, if handled correctly it is unlikely to become faulty.

Refer all servicing to our Service Centre or to a qualified workshop.

After unpacking

Please check the following items have been included with delivery:

Receiver unit
Remote control
This manual

Recording & Playback guide
2 alkaline batteries (LR03, Size AAA)
3-RCA cable

Operating ambient temperature range

The operating ambient temperature range is 5 °C – 40 °C (41 °F – 104 °F) with humidity of 20 – 80%. When using the unit in a system rack, be sure to keep the ambient temperature inside the rack does not exceed the temperature range.

Thunderstorms

When you leave the unit unattended for a long period of time, i.e. on holiday or during an electrical storm disconnect the unit from both the mains and the aerial.

Battery disposal

Empty batteries do not belong with the household refuse. The batteries must be disposed of at a designated disposal/recycle point. Contact your local authorities to locate your nearest battery disposal point. Please care for our environment.

Cleaning the unit

Always disconnect the AC mains plug before cleaning the unit.

When cleaning the unit, only use a moistened, soft cloth. Do not apply chemical solvents or cleaning agents, as they may damage the surface and/or labelling of the unit.

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Recording & Playback of your PVR-X10

Hard disk Functions

The hard disk record or playback functions are controlled from the PVR menu.

Press the PVR key to enter the PVR menu.




Press the EXIT key to return to the normal receiver operation.

When the PVR menu is active a picture in the upper left corner of the screen shows all functions that are available at the moment. These functions can be activated by pressing the corresponding numeric buttons on the remote control.







Press the OK key to switch between different views of the PVR menu.

Press the +/- keys to control the volume from inside the PVR menu.

Recording

Key	Symbol	Description
0		Start recording.
5		Start recording and stop the visible video.
0		Stop recording.

Playback

Key	Symbol	Description
7		Opens the record list. From the record list you can play back recordings or delete them.
2		Starts playback at the beginning of the current record session or returns to normal playback speed from fast reverse/forward or pause.
1, 3		Fast reverse/forward. Plays the recording at increased speed. By pressing the keys 1 and 3 multiple times you select from six different speeds.
4, 6		Skips 5 minutes in the recording (forward or backwards).
5		Pauses the playback.
9		Quits playback and returns to the live video of the current channel.

Playback and recording work simultaneously and independently in the receiver.

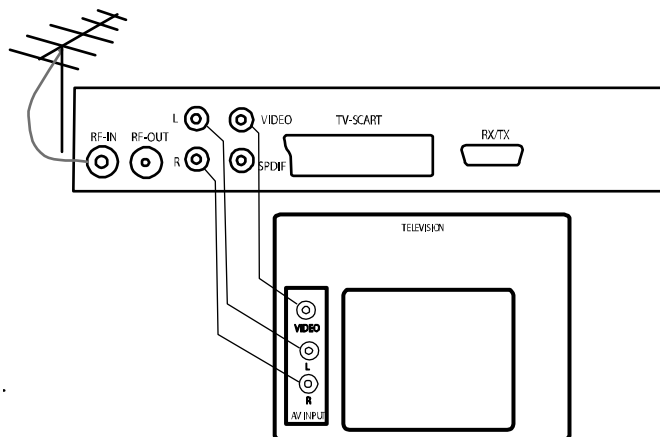
You can record the currently selected channel. In parallel you can either play back a recording that was made earlier or you can play back the active recording session (time-shift).

Therefore at the bottom of the PVR menu one or two status bars show the status of the record function and the playback function. If both functions are inactive the word "LIVE" is displayed. If recording is active a bar with the word "REC" is displayed together with the elapsed recording time. If playback is active a bar with "PLAY", "FF" (fast forward), "FR" (fast reverse) or "PAUSE" is displayed. This bar also shows the current position in the recorded stream as numbers and as progress bar. To the right of the progress bar the total length of the stream is displayed (except for time-shifted playback where the total length changes constantly and can be seen in the "REC"-bar).

Connecting the receiver

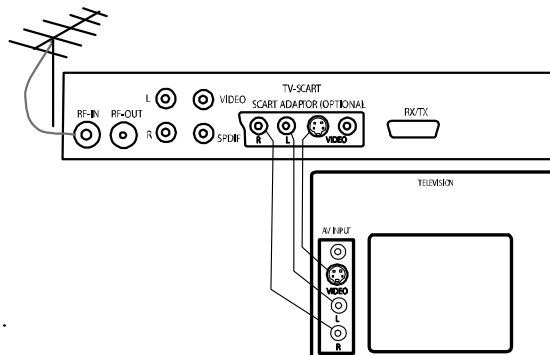
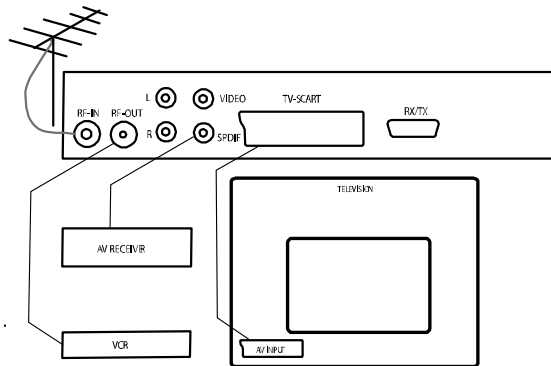
The following connections must be made before you can use the receiver unit to watch digital TV. On the rear of the receiver you will find the following markings. Please follow these steps for the correct setup of the receiver unit:

VIDEO, AUDIO L/R	Connect your TV AV Input to the Video & Audio L/R connectors on the rear of your PVR-X10
RF-IN	Connect the cable of your regular terrestrial TV aerial to this connector.
power cable	Connect this moulded power cable and socket to an available power socket.



Optional devices

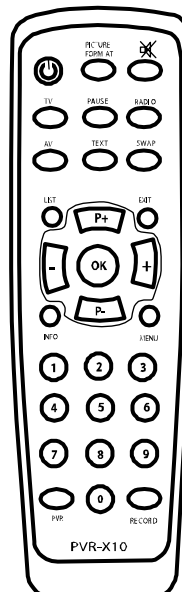
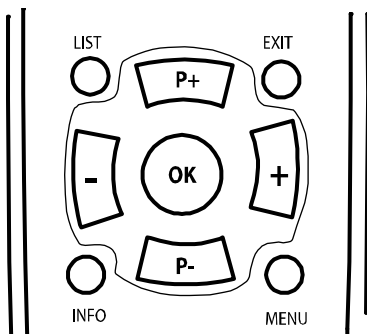
SPDIF	For the best possible sound reproduction – Digital audio output. Connect your amplifier with an S/PDIF IN socket using this connection. Use a shielded S/PDIF cable for best results (not included).
TV	For best possible video reproduction, S Video quality is available via SCART adaptor (not included). To select S Video, press MENU twice > Edit settings > Signal output > Video format > press +/- to select “Y/C” > EXIT > Save settings > confirm with OK.
RF-OUT	If you wish to send the regular terrestrial aerial signal to your TV or VCR connect the RF cable here. RF cable not included.
RX/TX	Serial Interface to a PC. Connect your receiver to a PC to load software updates or new channel lists.



Operating the receiver

Operating the receiver is done using the supplied remote control. Navigation within the on screen menu (OSD) is carried out using the buttons shown below:

P+ / P-	Moves the selection in the menus up- and down.
- / +	In lists: pages up- and down In input fields: changes between the entry options
OK	Open, submit or edit the currently marked entry.
EXIT	Leave the active menu
SWAP	In menus with more than one window you can change between the windows using SWAP.
MENU	Press MENU once for menu options to current event. Press MENU twice to open the main menu.
INFO/EPG	Press once to open the EPG for information on the current program. Press INFO/EPG twice for information on all programs transmitted today.
LIST	Press LIST for the TV channel list.
PVR	Opens the PVR menu to control the hard disk recording functions

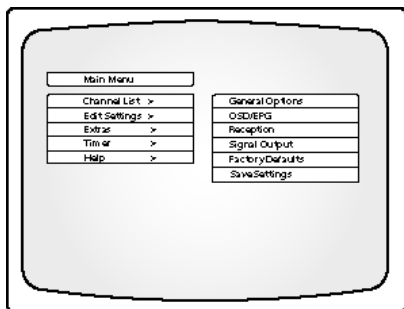


Basic Settings

After switching on your PVR-X10 for the first time, or after using the factory defaults function you will be asked to choose your OSD language and your geographical location, the PVR will also offer you the choice to perform a channel search, which takes a few minutes, when all channels are scanned the first received channel will appear.



Press the list button to view all the channels available.

1. Open the main menu
2. Go to Edit Settings
3. Go to "Signal output" if you wish to control the volume via the PVR set the volume bypass to OFF
4. If you wish to control the volume of the TV signal by an Amplifier or TV, set the volume level of the connected device to the minimum then select bypass to ON.
5. Leave the "Signal Output" menu by pressing EXIT and move to the heading "Save Settings" Press OK and wait until the menu disappears.



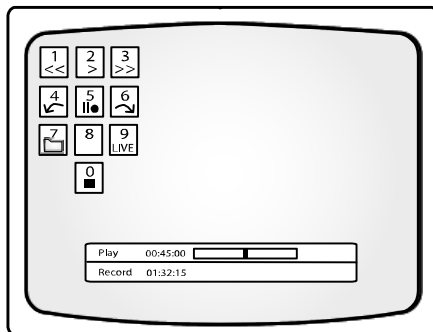
General operation of the receiver

You can choose the following remote control functions in normal TV viewing mode:

P+ / P-	Change to previous or next channel in the channel list
TV / RADIO	Change between TV and radio mode
- / +	Volume down/up
	Mute on/off
OK	Display the status panel or use the quick help function
SWAP	Change to the last chosen TV or radio channel
MENU	Make an adjustment to the current program
	Stand-by mode on/off
TEXT	Display the OSD-Teletext



By pressing the OK button you will get a short help screen explaining the main functions of the receiver. This function can be deactivated in the main settings ("OSD/EPG", parameter "Short help with OK"). After deactivating, the OK button opens the status window with information relating to the current event.

By pressing the PVR button, you can access the PVR menu which allows you to control the Record and Playback functions.



Operation front panel buttons

In case the remote control is not at hand an emergency use of the receiver is possible via the front panel buttons. The buttons have the following functions:

	Change to the next or previous channel in the channel list. If both buttons are pressed at the same time the receiver will change between TV and radio mode.
	Stand by mode on/off
STANDBY	

The display on the front panel also gives information to the operational mode of the receiver. The number of the running channel will be shown on the front display and the radio LED is illuminated when the unit is in radio mode.

The TIMER LED is illuminated permanently when at least one timer is programmed. During recording the TIMER LED blinks on and off every half a second. If a timer has been programmed and the receiver has not received correct time information from the TV signal the TIMER LED blinks quickly to warn you.

Channel selection

The receiver keeps an internal channel list in its memory. This list contains all channels that were found during channel scan. There are several methods of choosing a TV channel:

P+ / P-	Change to the previous or next channel in the channel list
TV RADIO	Change to TV or radio mode
SWAP	Change back and forth between actual and previously viewed channel. The operating software of the receiver only notes the last channel that was active at least one second. This means that you can change channels quickly using the P+/P- button and these channels will be ignored by the SWAP function.
0 – 9	You can always enter a channel number using the number buttons directly. The entry can be shortened using the OK button (e.g. when you wish to enter a single figure channel number) or EXIT to cancel. To shorten the process of entering a figure, which is less than four digits, keep the button pressed when entering the last number. Note: You can call up deactivated TV channels by entering the channel number directly.

Channel list

The channel list can be shown in a number of ways:

LIST	Shows the whole channel list. You can navigate using the P+/P- buttons to any channel. Press OK to activate the channel. You can change between the TV and radio list using the TV-/RADIO buttons.
EXIT	You can use the EXIT button to call up the channel list if the information panel is not active.
TV RADIO	Change to TV or radio list
0 – 9	You can also enter a channel number using the number buttons directly. The entry can be shortened using the OK button (e.g. when you wish to enter a single figure channel number) or EXIT to cancel.

EPG - Electronic program guide

DVB conforming transmitters offer information on their programs such as the title and description of the current and following program. Additionally, transmitters also have the option to offer a program guide of up to 64 days in advance. Not all transmitters offer the full 64 days of program information. Please check with the company providing the signal.

The status panel

When a channel has been selected the title and a short description of the current program is shown in the status panel. For further information open the EPG.

The EPG ¹

This is your Electronic Program Guide. The following table explains the individual functions of the EPG:

Detailed view	Detailed information on the current program is displayed by pressing the INFO/EPG button
Detailed view to following event	For information to the following program use these buttons: + / -.
Daily overview	<p>The list of programs for the whole day is displayed by pressing the INFO/EPG button again when detailed information for the current program is open (from 6 a.m. to 6 a.m. the following day).</p> <p>The date to which the program guide refers is shown in the heading. To the right of this you can see how many days of information are available and which day you have activated.</p> <p>If you wish to move to the next day go to the end of the list and press + or -. To move back to the previous day go to the beginning of the list and press P+ or P-.</p> <p>Note: If you have selected a TV channel for the first time the information in the list may change as you navigate.</p>
Daily overview Detailed view	To get detailed information on a program in this list press OK. The next or previous programs are reached with the + / - buttons.

¹ At time of printing the EPG provided by the Australian TV networks is limited to the present and following programs. To record the following program, press INFO > LIST > OK.

OSD Teletext

If you have selected a channel that contains teletext data the programme menu contains an entry "Teletext" that can be used to open the OSD Teletext.

0 - 9	Enter page number (between 100 and 899)
P+ / P-	Single step through the pages Pages that are not in the page cache will be skipped.
- / +	In normal mode: Volume control In sub page mode: Single-step through sub pages
MUTE	Mute on / off
OK	Activate/Deactivate sub page mode. While the sub page mode is active a green ">" is displayed next to the sub page number in the second text row.
MENU	Go to page 100
INFO/EPG	Quiz key (uncover hidden text)
SWAP	Step through zoom modes: 1. Zoom upper half 2. Zoom lower half 3. Normal mode
LIST	Hide the teletext window until the selected page or a new sub page becomes available. The teletext remains active in the background.
EXIT	Leave the Teletext The teletext remains active in the background.
TEXT	Out of the running programme: Open teletext Out of the teletext window: toggle between teletext display modes
PAUSE	Teletext stop (page will not be updated) – press again to restart teletext retrieval

Timer

The built in timer can administrate up to 12 recordings. Thereby you can choose a fixed recording date or day of the week for each timer command.

The recordings are programmed in the menu point "Timer" in the main menu. All dates to the 12 entries can be seen in the overview. The individual entries can be processed using the OK button. Setting whether a timer should be programmed for a fixed date or a regular day of the week is done by pressing the LIST button in the date column. If an end time which is sooner or the same as the start time is entered, the recording will take place on the following day.

In order for the timer to function properly the internal clock must be correct. This can be checked by looking at the time in the status panel.

The TIMER LED is illuminated permanently when at least one timer is programmed. During recording the TIMER LED blinks on and off every half a second. If a timer has been programmed and the receiver has not received correct time information from the TV signal the TIMER LED blinks quickly to warn you.

Programming transmissions from the EPG

A program can be copied from the daily overview and its detailed view directly into a free timer by pressing LIST.

Selection of audio-/ radio channel

To select an alternative audio channel to a multilingual program, press the MENU button whilst the program is running.

As long as the broadcaster supports the transmission of this data a heading "Audio Channel" will appear in the window. Press OK and select the desired audio channel.

The name of the language will appear providing that the audio channel includes this data.

Press the OK key for a few seconds to store the selected audio channel permanently as the default in the channel list.

Games

Two games have been included with the receiver. These games can be found under “Extras” in the main menu. The object of the game “Blocks” is to fill up the screen with the falling blocks so as to leave as little empty, unused space as possible. As a row becomes full it disappears and the rows above it move down. Points are achieved for every block, which is moved into place, and every row, which is eliminated. The game is over when there is no more space left in which to place the blocks from the top of the screen.

To place the blocks use the following buttons:

OK / P+	Turn the blocks (counter clockwise)
-	Push the block to the left
+	Push the block to the right
P-	Allow the block to fall faster

The object of the game “Snake” is to control a moving snake for as long as possible. The snake is hungry and wants to eat all the blocks that appear on the screen. Don’t let the snake hit a wall or chew through its own tail!

P+ / P- / + / -	Change the direction of the snake’s travel
-----------------	--

Configuration of the receiver

Basic settings

The basic settings are modified in the sub menu “Edit Settings” of the main menu, which can be reached by pressing the MENU button twice.

To change an individual option of the settings menus use the - / + buttons. As long as these options stem from a values list, this list can be opened by pressing the OK button. Numerical values can be entered directly using the numeric buttons.

Settings, which have been changed without saving, are marked green. When the receiver is used for the first time and no settings have been made, all values will appear green.

Changes to settings must be saved. Go to the heading “Save settings” in the settings menu and press OK. Wait until the menu has disappeared, only then are the changes saved in the non-volatile memory, this may take a few seconds.

All individual options are clearly explained in the online help. Please read the chapter “Installation” carefully to change the important settings.

Factory defaults

The function “Factory Defaults” in the “Edit Settings” menu resets all settings to the values that are set before the receiver leaves the factory.

The Factory defaults will be saved immediately and the channel list will be emptied.

Editing the channel list

The channel list of the receiver can be sorted according to your wishes.

Call up the channel list editor through the menu heading "Channel List" / "Sort Channels" in the main menu.

After making any desired changes leave the channel list with the EXIT button. Confirm in the displayed "Save Changes" window by pressing OK.

To change entries the required entry should be chosen by pressing OK. A menu will appear with the available functions.

If you wish to edit a complete block of channels in a row choose the option "Block". In this case the menu will disappear and you will be requested to mark the end of the block in the list. Go to the last entry belonging to the block and press OK. The menu with the available options will then reappear.

Following functions are available in the menu:

Copy	Copies the channel on another position in the channel list. The target entry is over written.
Move	Moves the entry to another position. Note: If an entry is moved upwards, it will be positioned before the destination position, if moved downwards it will be placed after the destination position.
Delete	If a channel is deleted from the list, the position will be marked as unused, thus making no changes to the number sequence of the channel list.
Cut	Deletes a channel from the list but moves the following channels back up the list. Note: To support the block function of the list, only those channels are moved up that are located before the next entry that is marked as "unused". If for example the list is unused from entry 85 to 99 you could delete entry 57 and move only the channels 58 to 84 back down the list. The channels past 100 would remain unchanged.
Insert empty	Inserts an empty entry. The other entries are moved accordingly. Note: As with the "Cut" function the areas marked as unused TV channels will be regarded as the end of a block.
Pack	This option is only for use when a block has been marked. All gaps marked as "unused" within the block will be filled by the channels being moved up. The empty entries will then be collected at the end of the block.

Functions, which work with a destination entry, will request selection of the destination position. This is done by moving to the entry in the list and confirming with OK.

As long as a function has not been completed pressing the EXIT button reverses the previous steps.

Automatic search

The automatic search function of the receiver searches for new TV and radio channels. Coded/Scrambled TV channels are sorted out and not displayed. TV channels, which already exist in the list, will be removed automatically.

Performing an automatic search

1. Open up the search function in “Channel List” / “Channel Search” which is available through the main menu.
2. Wait until the end of the search. The information shown is technical details regarding the searched channels. The field “Totals” gives information about the channels found.
3. When the search is completed the select channels window will be displayed.

Select channels window

This window contains the channel list on the left and the list of newly found channels on the right. To change between TV and radio channels use the TV and RADIO buttons on the remote control. To change between the lists use the SWAP button. There are certain options available, to make use of these options choose a channel which you wish to change from one of the lists and press OK, then choose an option from the menu which appears.

In operations where channel entries are to be added to the channel list, the selection is moved to the left hand window and you are then required to select the target position with the OK button.

Note: If the channel list is empty before the scan is performed the results will automatically be copied into the left hand list.

The following options are available for the newly found channels (right hand list):

Activate	View channel
Copy above	Copy a selected new channel into the channel list. This entry and the following ones will be pushed down to make room for the new one.
Copy over	Copies the new selected channel onto an existing entry in the channel list. The old entry is then written over.

The following menu options are available for entries in the channel list (right hand list):

Activate	View channel
Restore	This option prevents updates to channels, which have been detected during the scan and that already exist in the channel list. Channels that will be updated are highlighted in green in the channel list.
Cut	Deletes a channel from the channel list. The following channels slip move up into the newly made space.
Delete	Deletes a channel from the channel list. The entry will be marked as unused in the list and the numbering of the other channels will remain unchanged.

After entering the newly found channels into the channel list according to your preferences press EXIT. A dialogue will appear asking if you wish to save the changes (OK button), don't wish to save (SWAP button) or continue editing (EXIT button).

Signal strength indicator/ Specifications

The signal strength indicator can be viewed from the sub menu “Extras” of the main menu.

An estimation of the signal strength will be made according to the status of the indicator bar. The C/N value gives the same value, measured in dB.

Note: The signal strength is not only dependent on your antenna but also the channel, which is currently activated and being transmitted. Please take this into consideration when controlling the positioning of your antenna.

Antenna adjustment

To simplify antenna adjustment the signal strength is displayed with the possible precision. In addition the INFO button can be used to invoke (and hide) a zoomed view of the signal level, that is readable from a distance.

Specifications & Functions

- 80GB IDE-Type Hard Drive • Up to 28 Hours Recording
- Present and Following Recording • In-Built SD Digital Terrestrial Receiver
- Fully DBV-T and MPEG-2 Compliant • Closed Captions and Teletext
- Auto TV Channel Setup • One Button Instant Record • Logical Channel Numbering
- Time Shift Function • Up to 2500 TV and 1500 Radio Storage
- 16:9 Widescreen/ 4:3 Letterbox/ Full Screen • Multi Language OSD
- Slimline Mirror Finish Design • Timer with 12 Programmable Weekly or Daily Events
- Loop Through Function (RF) • CD Quality Sound • Games and Calendar
- Channel List Editor • Input Frequency: 49~870MHz • 32 bit RISC CPU@130MHZ
- Dimensions: 280 x 173 x 40 WHD mm

Connections

- 1 x Euro AV TV SCART
- S-Video Via SCART
- 2 x RCA Audio L & R
- 1 x RCA Video
- RF In / RF Out
- S/PDIF Digital Audio Out
- RS232 Connector for Firmware Upgrades

Use of the RX/TX port

The serial port of the receiver offers you the possibility of connecting to a PC for software/firmware updates. Such updates may be downloaded from our website at www.wintal.com.au.

Updates and firmware revisions will be announced on the Wintal web site as they become available.

For connection to a PC a serial cable is required with 1:1 pin configuration. The cable requires a 9- or 25-pin D-SUB socket on the PC end, depending on the serial port of your PC. At the receiver end a 9-pin D-SUB connector is required.

Configuration of the cable is as follows:

1, 4, 6 - 9	not connected
2	TXD
3	RXD
5	GND

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