



Twin Digital TV Recorder

The integrated digital terrestrial receiver and hard disk recorder.

- > **ACCESS TO MORE THAN 30 'FREEVIEW' CHANNELS.**
- > **NO DISH, NO SUBSCRIPTION.**



- > *Watch one digital channel and record another.*
- > *Easy to use - Record without videotapes.*
- > *Pause live TV.*
- > *10 hours hard disk recording time.*

User Guide

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INTRODUCTION

Thank you for choosing the Pace Twin Digital TV Recorder. Please follow the instructions in this manual carefully to enjoy all the advantages of digital TV. We advise following the user instructions and recommendations supplied with your TV Recorder, especially for first-time use. Your TV Recorder fully complies with international DVB (Digital Video Broadcasting) standards. It is compatible with televisions and VCRs equipped with a standard SCART connector, also UHF, composite video or S-Video connectors.

RECOMMENDATIONS

Your TV Recorder's packaging includes cardboard and plastic which can be recycled to protect the environment.

Storage

If your TV Recorder is not used directly after purchase, it can be stored in its original packaging, in a cool dry place, at a temperature between -6°C and +50°C. Before use, wait until your TV Recorder has reached room temperature.

Maintenance

To clean your TV Recorder, dust with either a clean dry cloth, or one that has been slightly dampened with distilled water. Never use detergents of any kind. Before cleaning, always disconnect the power from your TV Recorder and unplug the aerial lead.

DISCLAIMER

Information in this manual is correct at the time of going to print. Channel availability is subject to signal coverage and may change at the discretion of the broadcaster. Reception of these channels may depend on the type and condition of existing aerial equipment and installation.

If your TV aerial needs upgrading, we recommend that this is carried out by a professional installation engineer.

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USING EQUIPMENT SAFELY

Your TV Recorder has been manufactured to meet international safety standards, but you must take care to operate it safely.

It is important that you read these safety instructions. If you have any doubts about the installation, operation or safety of your TV Recorder, please contact the Technical Helpdesk* on **0870 120 0986** (national call rate) or e-mail **twins@pace.co.uk**

WARNING

Remember that contact with AC mains can be lethal or can cause severe electric shock. To avoid the risk of electric shock:

-  Never remove the top cover from your TV Recorder. There are no user-serviceable parts inside, but there are some high-voltage live parts.
-  Make sure all electrical connections are properly made.
-  Do not connect any equipment to the mains supply until you have properly connected all the other leads.
-  Disconnect the mains lead from the mains wall socket before you disconnect any equipment from your TV Recorder.
-  Never push anything into holes, slots or other openings in the case (except a viewing card into the slot provided, and only when you are requested to do so).

CAUTION

-  Do not use or store your TV Recorder in hot, cold, damp or dusty places.
-  Do not block the ventilation holes of your TV Recorder. Leave a gap of at least 10cm above and around it to allow for adequate ventilation. Never stand it on soft furnishings.
-  Do not put anything on your TV Recorder which might drip or spill into it. Never stand objects filled with liquids, such as vases, on top of your TV Recorder.
-  Do not place your TV Recorder in an unventilated cabinet or on top of a unit which emits heat (e.g. a VCR).
-  Never place naked flame sources, such as lighted candles, on top of your TV Recorder.
-  Do not pick up or otherwise move your TV Recorder while it is connected to the mains supply. If you want to move your TV Recorder, first disconnect it, then wait at least 30 seconds before continuing.

* Calls to the Helpdesk may be monitored or recorded for training purposes.

MAINS PLUG AND ITS FUSE

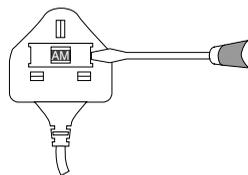
The supplied plug may be a non-rewireable type or a rewireable type. Both types contain an approved 3A fuse. If you need to replace the fuse, you must use an ASTA- or BSI-approved BS1362 fuse, rated at 3A and marked:



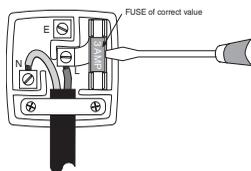
or



The **non-rewireable plug** has its fuse beneath a fuse cover on its face. Use a screwdriver to lever off the fuse cover, replace the fuse with a new one and refit its cover. **Never use a plug if its fuse cover is missing.**



The fuse is inside the **rewireable plug**. Use a screwdriver to remove the plug's back cover, then lever out the fuse and replace it with a new one. Replace the plug's back cover.



- ⚠ If the supplied mains plug is not suitable for your mains socket-outlet, remove its fuse and then cut the plug off the lead. Destroy the severed plug immediately to avoid the shock hazard which would exist if this were to be plugged into a mains socket.
- ⚠ Fit an appropriate mains plug on the lead. If this plug contains a fuse, it should be as described above. If you are using a non-fused plug, an external fuse must not exceed 5A.

CONNECTING TO THE MAINS SUPPLY

Your TV Recorder operates with 115 – 230V AC, 50/60Hz mains supplies. **Do not connect it to a DC power supply.**

The supplied mains lead has a 2-way connector at one end and a mains plug at the other. Insert the 2-way connector into your TV Recorder **before** you insert the plug into the mains supply.

The only way to disconnect your TV Recorder from the mains is to remove the mains lead. Your TV Recorder must therefore be installed near to the mains socket-outlet, which should be easily accessible.

For information about the mains plug and its fuse, see above.

If you are in any doubt about the mains lead, its plug or its connection, consult a competent electrician.

This User Guide contains all you need to know about how to watch and record digital terrestrial TV using your Pace Digital TV Recorder.

It's easy to install; just follow the instructions in the following sections,

which guide you through connecting and setting it up.

See also page 8, page 9 and page 10, which describe your TV Recorder's remote control.

Viewing card slot – insert your viewing card here when you are requested to do so (for future use only)

Play indicator – lights when playing back a recording from the hard disk

Remote command indicator – lights when your TV Recorder receives a signal from the remote control

Standby button – to switch your TV Recorder on and off

Arrow buttons – to move the selection, change channel lists, choose settings etc.



Record indicator – lights when recording a programme to the hard disk

OK button – choose current selection, confirm settings etc.

Menu button – display the **Main menu** screen

Clock/channel number display – shows the current time when switched off (in standby mode), and the current channel number when switched on. Also displays playback time elapsed and other status information.

Record button – record the currently-showing or selected programme

TV1/TV2 button – to view the current output from the TV2/VCR SCART on a TV connected to the TV SCART (see page 12 for further details)

Before you start installing your TV Recorder, please check you have the following items:

- Your TV Recorder;
- A SCART lead;
- An RF lead;
- A mains lead;
- Your remote control;
- Two 'AAA' batteries for the remote control.

CONNECTING YOUR
TV RECORDER**WARNING**

Before you connect or disconnect your TV Recorder to/from any other equipment, make sure you disconnect all the equipment from the mains supply.

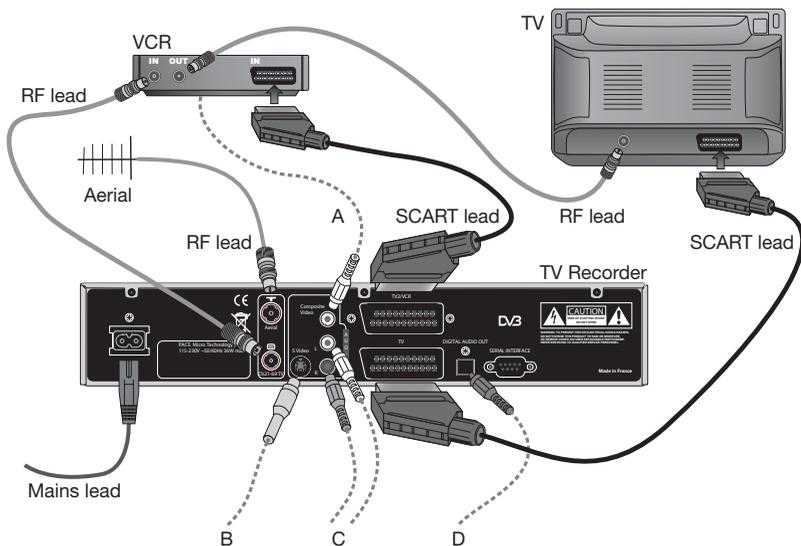
Typical connection method

The diagram below shows a typical method of connecting up your TV

Recorder to a TV and VCR. The leads you should use are drawn with solid lines between their connectors.

Leads drawn with dashed lines are optional; these are marked **A**, **B**, **C** and **D**, and are listed below the diagram.

Once all the connections are properly made, connect all equipment to the mains supply.

**Optional connections**

- A** Composite video* lead to a VCR or TV (phono connector)
- B** S-video* lead to a VCR or TV (mini-DIN connector)

- C** Right and left stereo audio* leads to a VCR, TV or hi-fi amplifier (phono connectors)
- D** Optical digital-audio* lead to a home cinema amplifier

* These outputs are based **only** on the current output from the TV SCART.

REMOTE CONTROL

Insert the two batteries into your remote control unit, making sure you insert them the correct way round.

SWITCHING YOUR TV RECORDER ON

Once you have connected your TV Recorder to the mains supply, your TV Recorder's clock display will light up, but will initially show '----'.

Switch on your television and ensure that it is set to its 'AV' channel.

SETTING YOUR TV RECORDER UP

When you first switch your TV Recorder on, the **Language** menu displays. This allows you to choose a language to be used for all your TV Recorder's menus and screens.

Use the ▲ ▼ buttons to select a language, then press the **OK** button on your remote control (see page 8).

Your TV Recorder will now initialise its hard disk. When this has completed, press the **OK** button to proceed to the next step.

CHANNEL SCAN

Once the hard disk has been initialised, the **Scan for channels** screen displays and your TV Recorder automatically begins scanning for channels. The channel scan takes about three minutes.

Once the scan is complete, the number of **Channels found** displays and the word **Done** displays at the bottom of the screen.

Press the **OK** button to save all the found channels.

Note: If you press the **Return** button, your TV Recorder will **not** save the found channels, and the **Language** menu will be redisplayed.

When you have pressed **OK**, a list of channels displays on your screen. This is the **All channels** list. Select a channel to watch and press the **OK** button.

Now you can enjoy digital television, but please read the instructions in the rest of this User Guide in order to get the most from your TV Recorder.

CONFIGURATION SETTINGS

You may need to change some of the configuration settings when you first install your TV Recorder, for example if you have a widescreen TV. For more information, see page 29.

YOUR TV RECORDER TOMORROW

Your TV Recorder comes with the latest digital TV technology. To keep up with new technology, new features may be developed which may then be transmitted to your TV Recorder as **software upgrades**. For more information, see page 35.

This page shows the buttons on your remote control that you need to set your TV Recorder up. All the other buttons are described on page 9 and page 10.

The features of your TV Recorder that can be accessed using the remote control are as follows.

1. Daily use

- switching on and off;
- changing channel;
- adjusting the volume;
- selecting the **Favourites** lists;
- displaying information on the current programme;
- displaying the **Electronic Programme Guide (EPG)** for current channel information and the **TV Schedule**;
- Recording programmes;
- Pausing live TV;
- Playing back programmes;
- Copying recordings to a VCR;
- activating/deactivating the **Parental code**.

2. Occasional use

- creating and organising the **Favourites** lists;
- updating the **All channels** list;
- changing the configuration settings.

Standby (⏻) button

Use the up and down arrows to select a language when you first set up your TV Recorder

Press **OK** to confirm a selection

Press **Return** to cancel a selection



YOUR REMOTE CONTROL

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YOUR REMOTE CONTROL'S BUTTONS



To change channel
To enter on-screen numbers such as the **Parental code**
To enter text when, for example, you rename a list



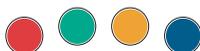
To switch the sound on/off



To display subtitles (if available)



To display the **Main menu**



Colour buttons:
To perform special functions
These will be explained on the screen when they are required



To select the previous or next item in a list or on-screen menu



To move to the left and right through on-screen menus, lists or items



To confirm a selection
To display the on-screen channel list



To put your TV Recorder into, or take it out of standby



To switch between normal analogue TV (e.g. to watch playback from a connected VCR) and digital TV (if your TV allows it). Your TV Recorder's display shows 'AUX'.



To switch between viewing the output on the TV SCART, and the TV2/VCR SCART



To change channel up or down (output from the TV2/VCR SCART), whilst viewing the output from the TV SCART



To display the **Event list**



To remove a screen (without saving any changes) and redisplay the TV picture



To display digital text (for future use)



To display the **TV Schedule**



To display information about the current programme (while you are watching TV) or the selected programme (if you are viewing the **TV Schedule**)



To change channel up or down

To display the next or previous page of a list



To change the volume up or down

To increase or decrease the visible time period covered by the **TV Schedule**, when it appears on your TV screen



To return to the previous selection or screen (without saving any changes)



To display the on-screen channel list

RECORDING AND PLAYBACK FUNCTIONS



To record a 30-minute clip of the channel you are currently watching
To set a bookmark during playback of a recording



To record the programme you are currently watching
To record the highlighted programme in the **Now & Next** banner or **TV Schedule**



To display the **Recording library**



To start a **live pause** recording (see page 19)
To pause playback, or resume playback if paused



To play back at normal speed from the current position



To rewind (play in reverse) at high speed



To fast-forward (play forwards) at high speed



To skip forwards to the next bookmark



To skip backwards to the previous bookmark (or to the start of the recording if there is no previous bookmark)



To stop playback of a recording, or to exit from a **live pause** recording (see page 19)
To cancel an existing "One-Touch", "Clip" or scheduled recording



To show more information about the current recording



To resume forward playback at normal speed if paused
To reset the playback speed to normal, then resume forward playback from the current position



To speed up or slow down playback (including live pause recordings), forwards and backwards, at multiple speeds

Switching on and off

Whenever you are not using your TV Recorder you should put it into standby. You should not unplug it at the mains.

To take your TV Recorder out of standby, press the **Standby** (⏻) button.

To put your TV Recorder into standby, press the **Standby** (⏻) button.

Changing channel

You can change channel by:

- using the number buttons to select a channel number;
- using the **Ch +** and **Ch –** buttons;
- pressing the **List** button, then the **▲ ▼** buttons to go through the current list *, then **OK** to change;
- selecting a channel from the **TV Schedule**.

When you change channel, an information banner appears at the bottom of the screen, which displays the channel number, channel name and current list* name.

Adjusting the volume

Use the **Vol +** and **Vol –** buttons to adjust the volume. Use the **Mute** (⊘) button to switch the sound off temporarily. A (⊘) symbol appears on the screen. Press the **Mute** (⊘) button again to switch the sound on again.

Using Favourites lists

You use **Favourites** lists to allow you to access your favourite channels quickly. (See page 25 to find out how to create your **Favourites** lists.)

While you are watching TV, you use the **◀ ▶** buttons to change the current list. The name of the list displays in the information banner. You then use the **▲ ▼** buttons to change channel up and down that list.

When you first use your TV Recorder there is only one list available: **All channels**. Once you have created some **Favourites** lists, these will become available.

Displaying the on-screen list

You can display the current list on your TV screen by pressing the **List** button. Use the **▲ ▼** buttons to go to the previous/next channel in the list, or the **Ch +** and **Ch –** buttons to go to the previous/next page. You can also use the **◀ ▶** buttons to display a different list.

Press the **OK** button to change to the selected channel.

Digital recording and playback

You can record digital TV programmes (see page 15). You can also pause live TV (see page 19), fast-forward/rewind recordings at high speed, and play back in slow motion (see page 20 for detailed information about playing back recordings).

* What are lists?

Your TV Recorder uses “lists” as a way of organising the channels. These are simply lists of channels. When you first use your TV Recorder, only one list is available: the **All channels** list.

However, you can also create **Favourites** lists, for example to group

together the channels you like to watch most often.

You use the **◀ ▶** buttons to change from one list to the next and the **▲ ▼** buttons to go to the previous/next channel in the list. For more information about lists, see above and page 25.

TV2/VCR SCART output

If you want to view the current output from the TV2/VCR SCART, on a TV connected to the TV SCART, press the **TV1/TV2** (↔) button.

Note: You cannot view the output as described above, when your TV Recorder is archiving (copying) a recording to your VCR (see page 23).

The picture on your TV screen will change to show what is currently being output from the TV2/VCR SCART of your TV Recorder.

Note: You cannot view interactive services or digital text on the output from the TV2/VCR SCART.

The picture appears in a small window, together with an information banner at the bottom of the screen, which displays the channel number, channel name and current list name.



While you are viewing this screen, you can affect the output from the TV2/VCR SCART as follows:

- display the on-screen list, by pressing the **List** button. Use the ▲▼ buttons to go to the previous/next channel in the list. You can also use the ◀▶ buttons to display a different list. Press the **OK** button to change to the selected channel.
- change channel by pressing the **Ch +** and **Ch -** buttons.
- display information about the current channel by pressing the **Info** button (see **Now & Next Programme Information** on page 13).

To return to viewing the current output from the TV SCART, press the **TV1/TV2** (↔) button again.

Note: You can, if you wish, change the channel that is output from the TV2/VCR SCART without first using the **TV1/TV2** (↔) button. To do this, use the **TV2 Ch +** and **TV2 Ch -** buttons on your remote control.

The Electronic Programme Guide (EPG) provides you with current programme and channel information and an on-screen TV Schedule.

This information is available only if provided by the broadcaster.

'NOW & NEXT' PROGRAMME INFORMATION

Press the **Info** button to display information on the current channel. The **Now & Next** banner appears, displaying the following information:

- the name of the channel;
- the current time and date;
- the name of the programme;
- the time the current programme begins and ends;
- a bar which fills in as the programme progresses;
- the name and the start and finish times of the programme showing next;
- information about the programme's content. If the description is longer than the space allows, use the ▲▼ buttons to display all the information.

Use the ◀▶ buttons to switch between the current (now) and next programme.

You can also use the **Ch +** and **Ch -** buttons to change channel.

If you want to record the current or next programme to disk, press the **Record** (●) button when the programme's full details are visible in the **Now & Next** information banner.

A red line appears in the progress bar, to indicate that the programme is scheduled for recording.

The new recording is also added to the **Event list** (see page 17).

To cancel an existing scheduled recording, press the **Stop** (■) button when the programme's full details are visible in the **Now & Next** information banner.

To remove the **Now & Next** banner from the screen, press the **Exit** button or press the **Info** button again.

For more information about recording digital TV programmes, see page 15.



TV SCHEDULE

Press the **Guide** button to display the **TV Schedule**. You may have to wait a few seconds before the information appears.

The channels are listed on the left. When you first display the **TV Schedule**, the current programme on the first channel is selected (shown by a blue background).

Use the **▲ ▼** buttons to move the selection line by line, and the **Ch +** and **Ch -** buttons to move the selection by page. Use the **◀ ▶** buttons to display information for later times (when available).

The programme backgrounds are coloured as follows:

- **blue** = the currently selected programme;
- **green** = the programme is currently being broadcast;
- **yellow** = the programme will be broadcast later;
- **orange** = the programme has ended.

The following information about the selected programme is displayed at the bottom of the screen:

- the time the programme begins and ends;
- a bar which fills in as the programme progresses;
- the name of the programme;
- information about the programme's content.

To display more detailed information about a selected programme, press the **Info** button. To remove this information, press the **Info** button again.

To remove the **TV Schedule** and change channel, highlight a programme and press the **OK** button. Your TV Recorder

TV Schedule MY LIST 1			Fri 11:22 13/12/2002
	11:00	Today	
			13:00
BBC ONE	Big Strong Boys	Trading Up	
BBC TWO		Scho ols:	Scho ols:
ITV 1	This Morning		
Channel 4	Battle of the Coral Sea	Powerhouse	
BBC NEWS 24	BBC News	BBC News	
11:30 - 12:00	Trading Up		
Record	Kings Heath: Colin McAllister and Justin Ryan are in Kings Heath, Birmingham, where they find		

changes to the channel that the highlighted programme is on.

To record the highlighted programme, press the **Record** (●) button.

The new recording is added to the **Event list** (see page 17). You will also be asked to confirm (or amend) the event's details (see page 16).

A red line appears in the box containing the programme's name, to indicate the length of the scheduled recording.

To cancel an existing scheduled recording, highlight it in the **TV Schedule**, then press the **Stop** (■) button.

To remove the **TV Schedule** from the screen and return to the channel you were watching before, press the **Exit** button.

For more information about recording digital TV programmes, see page 15.

Note: The **TV Schedule** only shows information for channels in the current list (that is the **All channels** list or a **Favourites** list). To change to a different list, press the **Exit** button to remove the **TV Schedule**, then use the **◀ ▶** buttons to select another list, then press the **Guide** button to display the **TV Schedule** again.

“ONE-TOUCH” RECORDING

If you want to immediately start recording the programme you are currently watching, simply press the **Record** (●) button once; the remainder of the programme will be recorded to disk.

If you also want to record the next programme on the current channel, press the **Record** (●) button a second time. You can repeat this action to schedule subsequent programmes for recording, provided that the relevant programme information is available.

The new recording(s) are added to the **Event list** (see page 17).

To cancel a “One-Touch” recording, press the **Stop** (■) button on your remote control.

“CLIP” RECORDING

To immediately start recording a 30-minute clip of the programme you are currently watching, press the **Clip** button once; the clip will be recorded to disk.

If you want to extend the clip by another 30 minutes, press the **Clip** button again, and so on.

The new recording is added to the **Event list** (see page 17).

To cancel a “Clip” recording, press the **Stop** (■) button on your remote control.

“NOW & NEXT” RECORDING

To display the **Now & Next** banner while you are watching live TV, press the **Info** button.

Use the ◀▶ buttons to switch between the current (now) and next programme. You can also use the **Ch +** and **Ch -** buttons to change channel.

If you want to record the current or next programme to disk, press the **Record** (●) button when the programme’s full details

are visible in the **Now & Next** information banner.

A red line appears in the progress bar, to indicate that the programme is scheduled for recording.

The new recording is also added to the **Event list** (see page 17).

To cancel an existing scheduled recording, press the **Stop** (■) button when the programme’s full details are visible in the **Now & Next** information banner.

To remove the **Now & Next** banner from the screen, press the **Exit** button or press the **Info** button again.

For more information about the **Now & Next** banner, see page 13.

RECORDING FROM THE TV SCHEDULE

To display the **TV Schedule** while you are watching live TV, press the **Guide** button. You may have to wait a few seconds before the information appears.

To record a highlighted programme, press the **Record** (●) button.

The new recording is added to the **Event list** (see page 17). You will also be asked to confirm (or edit, if you wish) the event’s details (see page 16).

A red bar appears in the box containing the programme’s name, to indicate that the programme is scheduled for recording.

To cancel an existing scheduled recording, highlight it in the **TV Schedule**, then press the **Stop** (■) button.

To remove the **TV Schedule** from the screen and return to the channel you were watching before, press the **Exit** button.

For more information about the **TV Schedule**, see page 14.

EVENT CONFIRMATION

When you choose to record a programme from the **TV Schedule** (see page 15), the **Event confirmation** window appears.

You can use this window to confirm or amend details of the event.

To confirm the existing event details, or any changes you make, press the **OK** button. To cancel any changes you make, press the **Return** button.

If you want to amend the event's details, you use the **▲ ▼** buttons to highlight the item you want to change:

- to change the channel to be recorded, use the **◀ ▶** buttons.
- to change the name of the event, or the event information at the bottom of the window, use the number buttons on your remote control.

Note: You enter letters (shown underneath the buttons) by pressing a button until the letter you want appears on the screen. To delete letters, press the **◀** button.

- to change the “target” where the event is to be recorded, use the **◀ ▶** buttons. You can choose ‘TV SCART’, ‘VCR SCART’ or ‘Hard Disk’ as the target.

Note: You cannot record more than one event at the same time on your TV Recorder’s hard disk. See **Conflicting Events** on page 18.

- to change the start, duration and end times, and the date of the event, use the number buttons on your remote control. You can also use the **◀ ▶** buttons to move from one digit to another if you wish.

Note: When you change a time entry, your TV Recorder will automatically display the changed duration or end time as appropriate. If the end time you set is earlier than the start time, the event will end on the following day.

- to change how often an event repeats, use the **◀ ▶** buttons. You can choose ‘Once’, ‘Daily’, ‘Weekly’, ‘Weekdays’ or ‘Monthly’.

Just before an event is due to begin on the TV SCART, an associated message will appear on your TV screen. If your TV Recorder is in standby when any event is due to begin, it will turn on automatically.

ON-SCREEN MESSAGE

When your TV Recorder schedules a “One-Touch” or “Clip” recording of a programme, an on-screen message to this effect will appear for a short period.

EVENT LIST

This is a list of scheduled events in time/date order. To display the **Event list**, press the **Events** (🕒) button on your remote control. (You can also use the **Main menu** to display the **Event list** – see page 24.)

Date	State	State
13/12	HD	11:30 - 12:00 (duration 00:30) BBC ONE : Trading Up
	VCR	12:00 - 12:30 (duration 00:30) Channel 4 : Powerhouse

Return Exit Add new event Show all repeats
 Delete Edit event

For each event in the list, the following information appears:

- the event date, start/end times and duration;
- the channel name and programme title;
- the “target” for the event (‘TV’, ‘VCR’ or ‘HD’);
- a red dot to denote a currently-active event.

Note: Events that have completed or have been stopped are automatically deleted from the list.

Use the ▲▼ buttons to move the selection line by line. The current selection is shown with a blue background.

Use the ◀▶ buttons to switch between all events and those scheduled only for the TV SCART, TV2/VCR SCART or Hard Disk.

To remove the **Event list** from the screen and return to the channel you were watching before, press the **Return** button.

Editing events

To view details of, or edit, a highlighted event (except a current event), press the **OK** button. The **Event confirmation** window appears.

If you want to edit the event’s details, see page 16.

Deleting events

To delete a highlighted event, first press the **Red** button. Then press the **Red** button again to confirm the deletion, or press **Return** to cancel.

Listing repeating events

If you want to show every instance of events that repeat, press the **Green** button. To hide all future repeat events, press the **Green** button again.

ADDING NEW EVENTS

If you want to add a new event to the list, press the **Record** (●) button. The **Event confirmation** window appears.

Some initial details are already filled in, but you can change these, and all other details of the new event, as described on page 16.

When you have made all the changes you want to make, press the **OK** button, or, if you decide to cancel the new event, press the **Return** button.

CONFLICTING EVENTS

Whenever you add a new event, for example by using the **Record** (●) button, or by editing an event's details in the **Event confirmation** window, your TV Recorder checks for conflicts with existing events. There may also be other occasions when a conflict can occur.

Some examples of conflicts are:

- when the start/end times of a new event would overlap an existing event on the same channel and "target" ('TV SCART', 'TV2/VCR SCART' or 'Hard Disk');
- when you attempt to record more than one event to disk at the same time;
- when you attempt to record events to more than two out of the three possible "targets" ('TV SCART', 'TV2/VCR SCART' or 'Hard Disk') at the same time;
- when you attempt to pause live TV while recording an event to disk. For more information about pausing live TV, see page 19.

If a conflict does occur when you add a new event, a message, similar to the one shown below, will appear on your TV screen.



TV2/VCR SCART OUTPUT

When a recording to disk (except a **live pause** recording) is in progress, the TV2/VCR SCART output shows the same event. This means that you cannot change the channel that is output from the TV2/VCR SCART for the duration of the event.

DISK SPACE WARNING

When you add a new event to be recorded to disk, your TV Recorder will estimate if there is enough disk space remaining for the whole of the event.

If there is not enough space, a warning will appear on your TV screen.

Also, when a recording to disk is in progress, a warning will appear **10 minutes** before no more space is left.

If all the space on the disk is used up, your TV recorder will stop recording.

You must therefore delete previous recordings to make room for new ones. See the **Recording library** on page 20.

When you are watching a programme on a TV connected to the TV SCART (providing that a recording to disk is not already in progress) you can pause the programme.

To pause live TV, press the **Pause (||)** button on your remote control. The picture and sound will be “frozen” at that point, and your TV Recorder will immediately begin recording the programme to disk.

An on-screen symbol will also appear, showing the amount of time, in minutes and seconds, that the current picture is lagging behind the live TV programme.



Note: You cannot record interactive services using this feature.

At the same time as the recording is taking place, you can use the **Play (▶)**, **Pause (||)**, **Fast forward (▶▶)** and **Rewind (◀◀)** buttons etc. on your remote control to view the already-recorded part. For full details of the buttons you can use when playing back recordings, see page 21.

If you rewind to the earliest available point, or fast-forward to very near the same point as live TV, normal playback speed will be resumed.

DISK SPACE LIMIT

The available recording time (disk space) using this feature is limited to a pre-set period (you can change this using the menus). While you are playing back the recording, the programme will continue to be recorded, but over the top of the earliest part of the recording.

If all the space becomes used up while playback is paused, a warning will appear on-screen and recording will cease. However, you will still be able to view the recording using the buttons on your remote control, as described earlier.

REMOTE CONTROL RESTRICTIONS

Certain buttons on your remote control cannot be used while the **live pause** feature is active, and if you press any of these, an associated warning message will appear on your TV screen.

Note: If you press **Exit**, **Return** or the **Standby (⏻)** button, your TV Recorder will exit from **live pause** without warning.

EXITING LIVE PAUSE

To exit **live pause** and return to watching the live TV programme, first press the **Stop (■)** button on your remote control. Then press the **Red** button to confirm this action, or press **Return** to cancel.

Note: When you exit **live pause**, all of the recording is lost.

RECORDING LIBRARY

This is a list of existing recordings in time/date order. To display the **Recording library**, press the **Library** button on your remote control. (You can also use the **Main menu** to display the **Recording library** – see page 24.)



Note: Recordings that are currently in progress are shown here, in addition to their entry in the **Event list** (see page 17).

For each recording in the list, the following information appears:

- the date and start time that the recording was made;
- the duration of the recording;
- the programme title and channel name;
- a red dot to denote a recording that is currently in progress.

To the right of the list, you will see more information about the highlighted recording. Use the **▲▼** buttons to move the selection line by line.

To remove the **Recording library** from the screen and return to the channel you were watching before, press the **Return** button.

Playing back a recording

To play back the highlighted recording, press the **OK** button. For full details of the buttons you can use when playing back recordings, see page 21.

Editing recording information

To edit the title and/or the descriptive text associated with the highlighted recording, press the **Green** button. The **Event confirmation** window appears, as described on page 16, but with the above editing options only.

Deleting recordings

To delete a highlighted recording, or all tagged recordings, first press the **Red** button. Then press the **Red** button again to confirm the deletion, or press **Return** to cancel.

Tagging recordings

To tag a highlighted recording, press the **Blue** button. A tick in a circle will appear, to show that the recording will be included in those that you may want to delete all at once, or copy to your VCR.

To untag a highlighted recording, press the **Blue** button again.

Copying recordings to your VCR

To archive (copy) a highlighted recording, or all tagged recordings, to your VCR, press the **Yellow** button. For more information about copying recordings to your VCR, see page 23.

Displaying recording information

To show more detailed information about a highlighted recording, press the **Info** button. See **Recording Information** on page 22.

PLAYBACK CONTROLS

This section describes how you can control the playback of recordings that are on the disk of your TV Recorder.

The bottom two rows of buttons on your remote control have VCR-style symbols on them, which you use as follows:

Button	Description
	– to play back at normal speed from the current position.
	– to pause playback, or resume playback if paused.
	– to fast-forward (play forwards) at high speed.
	– to rewind (play in reverse) at high speed.
	– to skip forwards to the next bookmark.
	– to skip backwards to the previous bookmark (or to the start of the recording if there is no previous bookmark).
	– to stop playback of a recording, or to exit from a live pause recording.

Note: You can use the following remote control buttons as normal, while playback is in progress: **Vol +**, **Vol –**, **Mute** (🔇), **TV2 Ch +**, **TV2 Ch –**

You can also use the **Ch +** and **Ch –** buttons to change the current playback to another recording (if any exist).

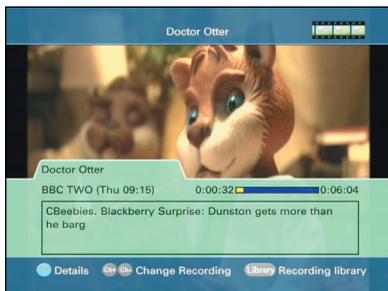
In addition to the standard VCR-style controls, you can use the following buttons on your remote control, while playback is in progress:

Button	Description
OK	– to resume forward playback at normal speed if paused. – to reset the playback speed to normal, then resume forward playback from the current position
	– to show more information about the current recording (see page 22 for further details).
	– to set a bookmark at the current position in the recording. A message will appear briefly, giving the time at which the bookmark is set. For more information about bookmarks, see page 22.
	– to display the Recording library , with the current recording highlighted (see page 20 for further details).
	– to speed up or slow down playback (including live pause recordings), forwards and backwards, at multiple speeds as follows: x64, x32, x16, x8, x4, x2, x1 x1/2, x1/5, pause, x-1/5, x-1/2, x-1, x-2, x-4, x-8, x-16, x-32, x-64

RECORDING INFORMATION

Whenever you are playing back a recording (including a **live pause** recording), you can view more information about it.

To show the **Recording information** banner, press the **Info** button.



This banner displays the title of the recording, a progress bar with bookmark positions (if any exist) and the descriptive text associated with the recording. Also shown is the channel name and start time.

To view even more detailed information about the recording, press the **Blue** button. The following screen appears:



This screen displays additional recording information, such as:

- a list of bookmarks (if any exist);
- the channel name;
- the date, start/end times and duration of the recording.

To edit the title and/or the descriptive text associated with the recording, press the **Red** button. A window similar to **Event confirmation** appears (see page 16) but with the above editing options only.

To hide the **Recording information** banner or screen, press **Return**.

BOOKMARKS

These are exact points, at the times you choose within a recording, which you can go to quickly when you play it back.

Setting and renaming bookmarks

To set a bookmark during playback, and whenever the **Recording information** banner is visible, press the **Clip** button.

If the **Recording information** banner is **not** visible, a message will appear briefly, giving the time at which the bookmark is set.

If the **Recording information** banner is visible, a new bookmark will appear on the progress bar at the position you set.

To rename a highlighted bookmark, first press the **Yellow** button.

Deleting bookmarks

When the detailed **Recording information** screen is visible, you use the **Left** and **Right** buttons to highlight the previous/next bookmark (if any exist) on the progress bar. To delete a highlighted bookmark, press the **Green** button.

COPYING RECORDINGS TO YOUR VCR

This feature enables you to archive (copy) recordings, shown in the **Recording library**, from the disk to your VCR, via the TV2/VCR SCART connection.

To display the **Recording library**, press the **Library** button on your remote control. (You can also use the **Main menu** to display the **Recording library** – see page 24.)



Use the **▲ ▼** buttons to move the selection line by line.

To tag a highlighted recording, press the **Blue** button.

Your TV Recorder will display the total length (in hours and minutes) of video tape required for the recording.

To copy a highlighted recording, or all tagged recordings, to your VCR, press the **Yellow** button.

Recordings are copied at normal speed so, if a recording is two hours long, it will take two hours to copy it to your VCR.

You must ensure that your VCR is turned on and ready to record.

To confirm that you want to start the copying process, press the **Red** button or, to cancel, press the **Return** button.

Note: If the copying process would cause a conflict with existing scheduled events that use the disk or TV2/VCR SCART, a warning will appear on your TV screen. Also see **Conflicting Events** on page 18.

While copying a recording to your VCR is in progress, you cannot view the **Recording library**. An **Archive Information** screen will appear on your TV screen if you try to display the **Recording library**.

Note: You cannot pause live TV or use the “One Touch”, “Clip” or “Now & Next” disk recording functions while existing recordings are being copied to your VCR.

To find out if the copying process has ended, press the **Library** button on your remote control to display the **Archive Information** screen. The message **(Complete)** will appear to the right of all archived recordings.

USING THE MAIN MENU

You access some of your TV Recorder's features, particularly those which you use only occasionally, via the **Main menu**.

To display the **Main menu**, press the **Menu** button. Many other sub-menus and screens are available from the **Main menu**.

The menus are very easy to use. When the **Main menu** first displays, the first item in the list is highlighted. You use the ▲ ▼ buttons to move the highlight up or down, and the ◀ ▶ buttons to move it left or right.

You use the **OK** button to make/confirm a selection or display the next menu/screen and you use the **Return** button to return to the previous menu/screen without saving any changes.

You use the **Exit** button to remove the menu and redisplay the TV picture.

The following sections describe all the available menus in more detail.

EVENTS AND RECORDINGS

To display the **Event list**, highlight **Events** then press the ▶ button. This has the same effect as pressing the **Events** (🕒) button on your remote control (see page 17.)

To display the **Recording library**, highlight **Recording library** then press the ▶ button. This has the same effect as pressing the **Library** button on your remote control (see page 20.)



ABOUT FAVOURITES LISTS

After your TV Recorder has scanned for channels, all the channels it has found are stored in the **All channels** list. (For more information about the **All channels** list, see page 27).

However, to make it quicker and simpler for you to find the channels you want to watch, you can organise the channels into lists of your favourite channels, known as **Favourites** lists. You can create up to 8 **Favourites** lists.

For example, each person in your household could have their own named **Favourites** list.

Note: The same channel may appear in several lists.

CREATING FAVOURITES LISTS

Press the **Menu** button to display the **Main menu**.

Highlight **Your TV lists** then press the ► button to display the **Your TV lists** menu.

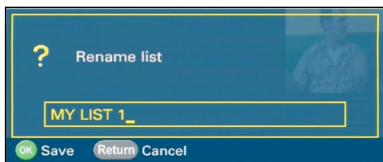
Highlight and select one of the eight lists displayed on the screen. These lists are initially called List 1, List 2, ..., List 8.

The selected list screen is then displayed, as shown in the diagram below. At first, there will just be a list of numbers as no channels will have been selected.



Changing the list name

To change the name of the list, press the **Blue** button. The **Rename list** screen appears.



Note: You enter letters (shown underneath the buttons) by pressing a button until the letter you want appears on the screen. To delete letters, press the ◀ button.

When you have finished entering the name, press the **OK** button or, to cancel, press the **Return** button.

Adding channels to the list

To add channels to the list, press the ▶ button. Use the ▲▼ buttons to change line and the **Ch +** and **Ch -** buttons to display the next or previous page of the list.

To select a channel to add to your **Favourites** list, highlight it then press the **OK** button. A cross (X) appears next to the name of the channel. To undo the selection, press the **OK** button again. You can select as many channels as you want.

To save your channels and return to the **List** screen, press the **Blue** button.

Changing the channel order

There are two different ways you can change the order of the channels in the list.

1. To move a channel up or down the list, use the ▲▼ buttons to highlight the channel, then press the **Green** button. Use the ▲▼ buttons to move the channel, then press the **Green** button again to place the channel in its new position.
2. To swap the position of two channels, highlight one of the channels then press the **Yellow** button. Enter the number of the channel that you want to swap it with, then press the **OK** button.

Removing channels from the list

To remove a channel from the list, highlight the channel then press the **Red** button. A red line appears through the channel's name.

To remove the red line and keep the channel in the list, highlight the channel then press the **Red** button again.

Saving the changes

Once you have made all the changes you want to make to a **Favourites** list, press the **OK** button to save the changes. The **Your TV lists** menu redisplay. You can then continue creating and editing up to 8 **Favourites** lists.

ABOUT THE ALL CHANNELS LIST

The **All channels** list contains all the channels that are stored by your TV Recorder. This is the list that you choose from when you create your **Favourites** lists.

EDITING THE ALL CHANNELS LIST

To edit the **All channels** list, press the **Menu** button, then select **Channel list**, then select **Edit channel list**.

Use the **▲▼** buttons to change line and the **Ch +** and **Ch -** buttons to display the previous or next page of the list.

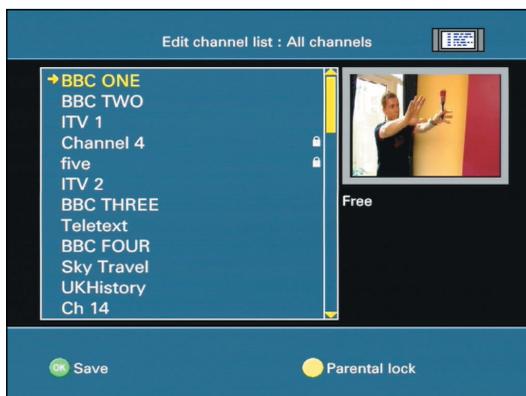
Locking and unlocking channels

To lock or unlock a channel, highlight the channel then press the **Yellow** button. Locked channels have a padlock symbol to the right of the channel name.

If you then activate the **Parental lock** (see page 28) you cannot watch any of the locked channels, without entering the **Parental code**. For more information about **Parental lock**, see page 28.

Saving the changes

Once you have made all the changes you want to make to the **All channels** list, press the **OK** button to save the changes. The **Channel list** menu redisplay.



You can use the Parental lock to prevent people who do not know the Parental code from watching channels you have locked and from using your TV Recorder's menus.

The pre-set **Parental code** is 1234, but we recommend that you change it (see right) if you want to use the **Parental lock**.

ACTIVATING PARENTAL LOCK

To activate **Parental lock**, press the **Menu** button to display the **Main menu**, then select **Parental lock**. The message "Enter code to activate parental lock" displays, with a space for the **Parental code**. Use the number buttons to enter the **Parental code**, then press the **OK** button. The TV picture redisplay.

Now, anybody who does not know the **Parental code** cannot watch any channels that you have marked as locked in the **All channels** list (see page 27). Also, the menus are locked, so you will need to enter the **Parental code** to use the menus.

WATCHING LOCKED CHANNELS

If you change to a locked channel, the message "Parental lock" will appear instead of the TV picture. If you want to watch the channel, press the **OK** button, then enter your **Parental Code**, then press the **OK** button. Or, you can just de-activate the **Parental lock** (see right).

* Calls to the Helpdesk may be monitored or recorded for training purposes.

DE-ACTIVATING PARENTAL LOCK

To de-activate **Parental lock**, press the **Menu** button, then enter the **Parental code** to display the **Main menu**. Select **Parental unlock** from the menu, then press the **Red** button to confirm. The **Main menu** redisplay. To redisplay the TV picture, press the **Exit** button.

CHANGING THE PARENTAL CODE

You can change the pre-set **Parental code** to a different number (up to 6 digits). To change the code, display the **Main menu**, then select **Configuration**. From the **Configuration** menu, select **Preference**, then **Change Parental code**. Enter the current code in the **Old code** space, then using the **▲ ▼** buttons to move between each line, enter your new code in the **New code** and **Confirm new code** spaces.

Press **OK**, then the **Red** button to save and confirm your new **Parental code**. The **Preference** menu redisplay. To redisplay the TV picture, press the **Exit** button.

Important: Do not forget the **Parental code**, as you will not be able to watch locked channels, or use the **Main menu**. If you should forget it, contact the Technical Helpdesk* on **0870 120 0986** (national call rate) or e-mail **twins@pace.co.uk**

LOCKING CHANNELS

You use the **Edit channel** list screen, available from the **Channel list** menu to lock channels. See page 27 for more information.

CHANGING THE TV SETTINGS

When you first install your TV Recorder, you may need to change some of the settings to match the type of TV you have – these are the **TV settings**. You may also need to change these settings if you buy a new TV.

To change or check the TV settings, press the **Menu** button to display the **Main menu**, then select **Configuration**.

From the **Configuration** menu, select **Installation**, then **TV settings**. The **TV settings** screen displays.

Use the **▲ ▼** buttons to move between each line and the **◀ ▶** buttons to change the setting.

To test the new settings, press the **Red** button. Your TV Recorder will temporarily show the effect of any changes you have made, before you finally save the changes.

For an explanation of the settings, see the table below. When you have made all the changes you want to make, press the **OK** button to save the changes.

Main TV

Item	Available settings	Comments
TV screen format	Normal [4:3] Widescreen [16:9]	If you have a widescreen TV, set this to Widescreen [16/9], otherwise set it to Normal [4:3].
16:9 Picture handling (You cannot select this item if you set Widescreen [16:9] for the TV screen format)	Automatic Letterbox True 16:9 letterbox Full screen	This setting determines how programmes broadcast in widescreen format appear on your TV. Automatic: this is the setting for widescreen TVs – you cannot change it. Letterbox and True 16:9 letterbox: these settings are for normal TVs (see overleaf). Full screen: this setting is for normal TVs – the screen is full, but the left and right edges of the picture cannot be seen.
Video output	Composite RGB	If you have an RGB-compatible TV, choose the RGB setting to give a better-quality picture. If your TV is not RGB-compatible, choose the Composite setting.
Audio output	Stereo Mono	If you have a stereo TV, set this to Stereo, otherwise set it to Mono.



TV2/VCR

Item	Available settings	Comments
TV screen format	Normal [4:3] Widescreen [16:9]	If you have a widescreen TV, set this to Widescreen [16/9], otherwise set it to Normal [4:3].
16:9 Picture handling (You cannot select this item if you set Widescreen [16:9] for the TV screen format)	Automatic Letterbox True 16:9 letterbox Full screen	<p>This setting determines how programmes broadcast in widescreen format appear on your TV.</p> <p>Automatic: this is the setting for widescreen TVs – you cannot change it.</p> <p>Letterbox and True 16:9 letterbox: these settings are for normal TVs (see below).</p> <p>Full screen: this setting is for normal TVs – the screen is full, but the left and right edges of the picture cannot be seen.</p>  
Video output	Composite S-Video	If you have an S-Video-compatible TV or VCR, choose the S-Video setting to give a better-quality picture. If your TV or VCR is not S-Video-compatible, choose the Composite setting.
Audio output	Stereo Mono	If you have a stereo TV or VCR, set this to Stereo, otherwise set it to Mono.

'Letterbox' and 'True 16:9 letterbox' settings

If you choose the **Letterbox** setting, you will see the picture with horizontal black bars above and below. In addition, you may sometimes see narrow vertical black bars on either side of the picture, and the horizontal black bars may be thinner. This behaviour is determined by the broadcaster, in order to provide the best compromise when certain widescreen programmes are transmitted.

If you choose the **True 16:9 letterbox** setting, you will always see the whole picture, with horizontal black bars above and below only. This setting overrides the broadcaster's intended setting.

MISCELLANEOUS SETTINGS

This menu allows you to change the following miscellaneous settings:

- Local time;
- Phono audio volume;
- RF modulator channel and source.

To change or check the miscellaneous settings, press the **Menu** button to display the **Main menu**, then select **Configuration**.

From the **Configuration** menu, select **Installation**, then **Miscellaneous**. The **Miscellaneous** screen displays.

Use the **▲▼** buttons to move between each line and the **◀▶** buttons to change the setting.

For an explanation of the settings, see the table below. When you have made all the changes you want to make, press the **OK** button to save the changes.

Item	Available settings	Comments
Local time	GMT (-12 to +13)	There is normally no need to adjust this setting, as it is set automatically when your TV Recorder is first switched on
Phono audio volume	Fixed Variable	This setting applies to the left and right audio outputs from the phono connectors on the rear panel of your TV Recorder. If you want the volume to remain at a fixed level, set this to Fixed. If you want the volume to change when you adjust the volume using your remote control, set this to Variable.
RF modulator:		
Channel	21 ~ 69	This setting determines which RF channel is used for the modulated audio and video output from your TV Recorder (the factory setting is 21).
Source	Main TV TV2/VCR	If you want the audio and video output from the TV SCART to be output on the RF channel set above, set this to Main TV. If you want the output from the TV2/VCR SCART instead, set it to TV2/VCR.

CHANGING THE LANGUAGE SETTINGS

Programme language and subtitling

Some programmes may be transmitted in more than one language and/or with subtitles in more than one language. You can select which language is your preferred language when more than one is available.

To change or check the **Language choice** settings, press the **Menu** button to display the **Main menu** and select **Configuration**.

From the **Configuration** menu, select **Preference**, then **Language choice**. The **Language choice** screen displays. Use the ▲ ▼ buttons to move between each line and the ◀ ▶ buttons to change the setting.

For an explanation of the settings, see the table below. When you have made all the changes you want to make, press the **OK** button to save the changes.

Item	Available settings	Comments
Audio First language Second language	English Welsh Gaelic	Choose your first choice and second choice for the audio language. If a TV programme is transmitted and neither of your preferred languages is available, the main language of that programme will be used.
Subtitling First language Second language	English Welsh Gaelic	Choose your first choice and second choice for the subtitling language. If a TV programme is transmitted with subtitles but neither of your preferred languages is available, the main language of that programme will be used.
Subtitling Automatic display	On Off	If you select On , subtitles will always display if they are available. If you select Off , subtitles will not display. Note: when Automatic display is switched to Off , you can use the Subtitles (☐) button on your remote control to switch subtitles on temporarily.

Menu language

You can change the language that all the on-screen menus and screens display in.

To change the Menu language, press the **Menu** button to display the **Main menu**. The **Language** menu is always at the bottom of the list and is therefore easy to find even if your TV Recorder's menus are displayed in an unknown language.

Press the **►** button to display the **Language** menu, then use the **▲▼** buttons to choose a language. Press the **OK** button to select the language, then wait a few seconds to allow your TV Recorder to display the chosen language.

SCANNING FOR CHANNELS

Your TV Recorder automatically scans for channels when you first set it up, as described on page 7. However, you can scan for channels whenever you want, for example if a new, free digital channel has been launched. You may also need to scan for channels if you move your TV Recorder to a new location, for example if you move house.

To scan for channels, press the **Menu** button to display the **Main menu** and select **Channel list**. From the **Channel list** menu, select **Scan for channels**.

The channel scan starts immediately and takes about three minutes. Once the scan is complete, the number of **Channels found** displays and the word **Done** displays at the bottom of the screen.

Press the **OK** button to save all the found channels.

IMPORTANT: If you press the **Return** button while your TV Recorder is scanning for channels, you will lose all the channels you previously had stored. You will therefore have to start a new scan for channels.

Once your TV Recorder has a new **All channels** list, you can create your **Favourites** lists, as described on page 25.

HARD DISK CONFIGURATION

To change or check your TV Recorder's hard disk settings, press the **Menu** button to display the **Main menu**, then select **Configuration**.

From the **Configuration** menu, select **Disk Settings**. The **Disk Settings** screen displays.

**Live pause space**

You use this setting to choose the amount of disk space reserved for **live pause** recordings. Set this to **Small**, **Medium** or **Large**. These settings are equivalent to about 30, 60, or 120 minutes respectively.

Use the ◀▶ buttons to change the setting.

Note: If you decide to change this setting, your TV Recorder's disk will be erased, and you will lose all your existing recordings.

To confirm that you want to change the setting, press the **Red** button or, to cancel, press the **Return** button.

Other functions

- **Check** – if you want your TV Recorder to check the disk for errors, press the **Green** button.
- **Initialise** – if you want your TV Recorder to initialise the disk, press the **Red** button.

Note: If you choose **Initialise**, your TV Recorder's disk will be erased, and you will lose all your existing recordings.

To confirm that you want to initialise the disk, press the **Red** button or, to cancel, press the **Return** button.

Hard disk information

The **Disk Settings** screen also shows the following information about your TV Recorder's hard disk:

- **Disk space in use** – this is a horizontal bar, the filled-in part of which shows how much of the total disk space has been used;
- **Record time available** – an estimate of the current recording time available, in hours and minutes.

When you have made all the changes you want to make, press the **OK** button to save the changes, or press **Return** to cancel.

TECHNICAL INFORMATION

You may need to refer to the **Signal information** and **Product data** screens if you have reason to contact the Technical Helpdesk. The information on these screens may help diagnose any difficulty you are experiencing.

You also use the menus to perform software upgrades to your TV Recorder as these become available (see right).

Signal information

Press the **Menu** button to display the **Main menu**, then select **Signal information**.

The **Signal information** screen displays technical information about the incoming signal from your TV aerial.

Product data

Press the **Menu** button to display the **Main menu**, select **Configuration**, then select **Product data**.

The **Product data** screen displays information about your TV Recorder itself.

Reset

This resets your TV Recorder to its factory settings.

Press the **Menu** button to display the **Main menu**, select **Configuration**, then select **Reset**.

When you select the **Reset** item, a screen displays asking you to confirm that you want to perform the reset. If you press the **Red** button to confirm, after the TV Recorder has reset itself, you will have to choose the **Language** again, then your TV Recorder will carry out its scan for channels.

Note: All the settings you have changed, for example the **Parental code** will be reset to the factory setting, and any **Favourites** lists you have created will be lost.

Before your TV Recorder scans for channels, you will be asked if you wish to keep your current disk settings. Press **OK** to continue or press the **Red** button to set up your TV Recorder's disk and delete all recordings.

If you choose **Setup disk**, you will now see the **Disk Settings** screen (see page 34).

AUTOMATIC SOFTWARE UPGRADE

To keep you up-to-date with the latest developments in digital television, from time-to-time new features may be made available to your TV Recorder. To take advantage of these new features your TV Recorder must receive a software upgrade. But don't panic – these upgrades are sent as part of the broadcasts your TV Recorder already receives. Simply follow the on-screen instructions as described on page 36.

Software upgrades will usually be made available for up to a week. Whenever there is a software upgrade available, a message will be sent to your TV Recorder. The message is sent as part of the BBC service, so you will need to be watching a BBC channel in order to receive this message.

Receiving the upgrade information

When you change channel to a BBC channel, and an upgrade is available, the following message displays on your TV screen.



We recommend that you start the upgrade immediately.

Note: This may take up to 15 minutes.

If you do not want to upgrade immediately, you can either:

- set your TV Recorder to be upgraded automatically later on (in the middle of the night), or
- cancel the automatic upgrade. If so, we recommend you carry out a “Software upgrade from the Main menu” (see right).

Starting the upgrade immediately

To start the upgrade immediately, press the **OK** button. Another message displays, explaining more about the upgrade and giving you the choice of starting the upgrade or cancelling. Press the **OK** button to continue.

As the upgrade is carried out, a progress bar displays. When the upgrade is complete, your TV Recorder will store then start up with its new software.

IMPORTANT You **must not** switch your TV Recorder off while it is storing new software, regardless of how the upgrade procedure is initiated.

Setting your TV Recorder to be upgraded later on

To set your TV Recorder to be upgraded later on, press the **Blue** button. The following message displays.



Press the **OK** button. Your TV Recorder is set to upgrade at 3am.

Note: You should not put your TV Recorder into standby at all until after the upgrade has been carried out, as this will cancel the automatic upgrade.

Cancelling the automatic upgrade

If you select **Do not upgrade**, or if you cancel the automatic upgrade, we recommend that you carry out a “Software upgrade from the Main menu” (see below) as soon as possible to make sure you have all the latest features.

SOFTWARE UPGRADE FROM THE MAIN MENU

When there is one available, you can start an upgrade via the **Main menu**.

Press the **Menu** button to display the **Main menu**, select **Configuration**, then select **Software upgrade**.

Follow the on-screen instructions. Once the upgrade has started, a progress bar displays. When the upgrade is finished, your TV Recorder will start up with its new software.

If you are experiencing difficulty with your TV Recorder, check the troubleshooting table below – this may provide the answer you are looking for.

If you still have problems after consulting the table, contact the Technical Helpdesk* on **0870 120 0986** (national call rate) or e-mail **twins@pace.co.uk**

* Calls to the Helpdesk may be monitored or recorded for training purposes.

Problem	Possible cause	Suggested remedy
The clock/channel number display is not lit.	Your TV Recorder is not receiving power.	Make sure that the mains lead is properly plugged in and that the mains supply is switched on. Check the plug's fuse (see page 4) If the display is still not lit, check that the mains wall socket has power (try plugging in a lamp). If it is OK, there may be a problem with your TV Recorder.
Your remote control will not operate your TV Recorder.	(i) Your TV Recorder is still in standby. (ii) Something is blocking the path between your remote control and your TV Recorder. (iii) The batteries in your remote control need replacing.	(i) Press the Standby (⏻) button on your remote control. (ii) Check that nothing is blocking the path. (iii) Replace both batteries in your remote control. Please remember that used alkaline batteries must never be thrown into a fire. We recommend disposing of them in an environmentally-friendly way.
When your TV Recorder first tries to find and store the digital channels, you see the message "No channels found" (or some of the publicised channels are missing from the All channels list).	(i) Your aerial is not properly connected to your TV Recorder. (ii) Your aerial is not pointing in the right direction. (iii) Your existing aerial may not be suitable for digital channels. (iv) Digital terrestrial channels are not yet being transmitted in your area.	(i) Make sure that your aerial is properly connected to your TV Recorder. (ii) Check if you can see the existing analogue channels (this will show that your aerial is pointing in the right direction). (iii) Ask your retailer for information about what type of aerial you need. (iv) Check with your retailer or the Technical Helpdesk that digital channels are available in your area. Finally, try scanning for channels again (see page 33).

Problem	Possible cause	Suggested remedy
You cannot see digital channels any more after you have moved your TV Recorder to a different house.	The aerial at the new location may be receiving from a different transmitter.	Scan for channels again, as described on page 33. It could be that the aerial at your new house is not adequate to receive digital TV.
You see the on-screen message: "No channel (number)".	You have selected a channel number button which currently has no channel associated with it.	In the future, this channel number may be used for a channel. In the meantime, select a different channel.
Subtitles do not appear although you have set them On in the Language settings menu.	Subtitles may not be transmitted with the programme.	
The volume on digital terrestrial channels does not match the volume on the existing analogue channels (or your VCR).	The volume of your TV Recorder needs adjusting.	Use the Vol + and Vol - buttons on your remote control to adjust the volume.
The picture or a menu/screen appears to be either: (i) "squashed" (from side to side or from top to bottom); or (ii) cut off at the top and bottom of the screen.	The "TV screen format" setting in the TV settings menu has not been set to correspond with your TV.	Display the TV settings menu (see page 29). If you have a widescreen TV, set Widescreen [16:9] otherwise set Normal [4:3] . Note: If you have a widescreen TV, its remote control may have a "zoom" button which alters the way that the picture appears on the screen, so you may also need to use this button.

Problem	Possible cause	Suggested remedy
<p>The picture sometimes breaks up into “blocks”.</p>	<p>(i) If you have other devices connected to your TV aerial, there may not be enough signal strength for the set-up.</p> <p>(ii) Objects such as trees, houses or passing traffic may be affecting the signal quality.</p> <p>(iii) Faulty connectors or leads may be affecting the signal quality.</p> <p>(iv) If the break-up is temporary but often, there may be interference caused by other electrical items in your home.</p>	<p>(i) Try connecting your aerial directly to your TV recorder. If this stops the picture breaking up then there is not enough signal strength to use additional devices. Consider improving your aerial or getting a booster amplifier – consult your retailer.</p> <p>(ii) You may need to improve your aerial installation – consult a professional installation engineer.</p> <p>(iii) Try new connectors/leads.</p> <p>(iv) Consult a qualified electrician.</p>
<p>Pressing tv/dtv does not switch between digital TV and an analogue channel.</p>		<p>Some makes of TV may not recognise this feature.</p>

Due to continued improvement, this specification may change without notice.

GENERAL

Operating voltage 115 – 230V AC; 50/60Hz
Power consumption 36W (maximum)
Weight 3kg (packed, including accessories)
Dimensions (W x H x D) 355mm x 65mm x 270mm
Operating temperature range . . 0°C to +40°C
Storage temperature range . . . -6°C to +50°C

UHF SIGNAL

UHF Channel Channel 21-69, -75 to -20dBm
Bandwidth 8MHz

DIGITAL SPECIFICATIONS

DVB compatible ETS 300 744
Decoding MPEG2 compatible (DVB/Main Profile @ Main Level)
Video 1.5 – 15Mb/s (720 x 576)
Audio MPEG2 – Musicam (layer 1 & 2)
(32, 44.1, 48kHz)

REAR-PANEL CONNECTIONS

Mains input	IEC 320 2-pin
Aerial in	IEC 169-2 female
RF out	IEC 165-2 male
TV SCART	SCART (composite video in/out, RGB in/out)
TV2/VCR SCART	SCART (composite video in/out, S-Video out)
S-video out.	4-way mini-DIN (based on TV SCART output)
Composite video out	Phono socket
Audio out (left and right)	Phono sockets
Optical audio out	Optical digital-audio socket
RS-232	DB-9 male, data communications equipment (DCE) EIA/TIA-232-E ITU-TV.28 115.2kbit/s (max.)

Note: The RS-232 port is for service use **only**. **Do not** plug anything into this connector.

ACCESSORIES

SCART lead (1.5 m); RF lead; UK mains lead
Remote control; 2 'AAA' batteries; User Guide



This product complies with the following European Council Directives:

- 73/23/EEC (the Low Voltage Directive) as amended;
- 89/336/EEC (the EMC Directive) as amended.

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WIRELESS AUDIO/VIDEO SENDERS

Description

Wireless audio/video senders use a radio frequency of 2.4 GHz to distribute audio and video signals around the house, eliminating the need to use long cables between rooms. This transmission method is completely legal in the UK, when you use approved equipment.

Some audio/video senders come with adaptors that plug into the SCART sockets of your existing equipment. If you use this type of sender with your TV Recorder, you can plug the transmit adaptor into the TV2/VCR SCART, or the TV SCART. You then plug the receive adaptor into the SCART socket of a TV or VCR elsewhere in your home.

Method 1 (transmit from the TV2/VCR SCART)

Using this method, you would be able to receive the output from the TV2/VCR SCART of your TV Recorder on a TV located in another room. However, you cannot see any menus or programme information etc. on this output. To change the output channel, you would normally use the **TV2 Ch +** and **TV2 Ch -** buttons on your TV Recorder's remote control, in the room where your TV Recorder is situated.

Method 2 (transmit from the TV SCART)

Using this method, you would be able to receive the output from the TV SCART of your TV Recorder on a TV located in another room. Menus or programme information etc. would also appear on this output.

Some models of audio/video sender are fitted with an infra-red transmitter on a short lead, the lens of which you would place near to the front panel of your TV Recorder. You could then use your remote control in the room where the receive adaptor is located, to send commands to your TV Recorder via the wireless link. In this way, you would have full control over your TV Recorder's functions even when you are in another room.



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