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DIGITAL TELEVISION RECORDER

GHD8020F2



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IMPORTANT SAFEGUARDS

POWER CORD

Do not place the product where a piece of furniture or other heavy object could trap the power cord (mains lead). Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord periodically to see if it is damaged. If it is damaged, please ask an approved service agent to replace it.

For your own safety read following instructions carefully before attempting to connect this device to the mains.

This unit is designed to operate on a 220V-240V AC - 50Hz supply only. Connecting it to other power sources may damage it. Ensure that the supply corresponds to the information on the rating label on the bottom of the unit. This DTR may be fitted with a non-rewireable plug. If it is necessary to change the fuse in a non-rewireable plug, the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a replacement, available from the manufacturer, is obtained. It is important that the colour of the replacement fuse cover corresponds with the colour marking on the base of the plug. If the plug needs to be changed because it is not suitable for your socket, or it becomes damaged, it should be cut off and the fuse removed immediately. Please dispose of the plug safely and out of reach from children. Under no circumstance should the cut-off plug be inserted into a mains socket outlet due to high risk of electric shock. Then fit an appropriate plug carefully following the wiring instructions shown below.

IMPORTANT

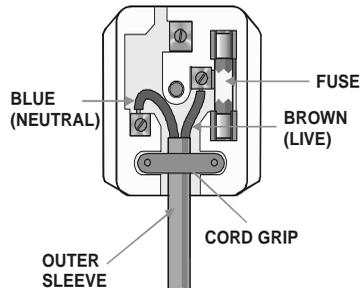
The wires in the mains plug should be connected as shown in the diagram.

The colours of the wires in the mains lead of the unit may not correspond with the coloured markings identifying the terminals in your plug. Connect them as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red.

There should be no connection to earth terminal of your plug. If you use a 13 Amp (BS1363) plug, you will need a 5 Amp fuse.



How to replace the fuse

Open the fuse compartment with a blade screwdriver and replace the fuse. When replacing the fuse in the plug, use ASTA or BSI approved 5 AMP fuse and be sure to re-fit the fuse cover. If the plug supplied with this equipment has a detachable fuse cover, be sure attach the fuse cover after you change the fuse. Never use the plug without the fuse cover.

If you should lose the fuse cover, please contact an electrical goods retailer. If in doubt, consult a competent electrician how to replace the fuse



This symbol means that this unit is double insulated. An earth connection is not required.

CAUTION

To prevent electric shock, disconnect from the mains before removing cover. No user serviceable parts inside. Refer servicing to qualified service personnel. Disconnect from the mains supply before cleaning.

This DTR has a built in hard disk (abbreviated as HDD) for recording and playback. Beware of the following points when setting up and using the DTR. Failure to observe precautions may cause damage to the HDD itself or its content, failure of the disk to operate, or recording of noise.

- Do not subject the DTR to any vibration or impact.
- Do not place the DTR in a cramped location which might block the ventilation port on the back of the DTR.
- Do not place the DTR in a location with severe temperature variation.
- Do not place the DTR in a location with high humidity.
- Place the DTR horizontally, never at an incline.
- Do not place a magnetic device (magnet etc.) close to the DTR.
- When the power is on, do not unplug the power cord from the AC outlet, turn off the breaker for the area where the DTR is set up, or move the DTR.

When moving the DTR, first turn off the power and then unplug the power cord from the AC outlet.

INTRODUCTION

Thank you for purchasing this product which has been designed and manufactured to give you many years of trouble-free service. Before use please ensure that you have read all of the following instructions.

About This User Guide

This user guide contains all the information you need to know about how to setup, watch and record available 'Freeview' channels using your DTR.

What is Freeview?

It is the new, free digital service currently providing approximately (depending on location/reception) 30 free digital TV channels, over 20 digital radio stations plus a whole new world of interactive services. It's broadcast from transmitters and received via a rooftop aerial. It works like traditional TV, but because the signals are Digital you need a set top box to convert them. This means more channels can be transmitted with extra features such as interactivity and widescreen pictures.

Safety is Important

To ensure your safety and the safety of others, please ensure you read the Safety Instructions before you operate this product.

- *Keep this information in a safe place for future reference.*

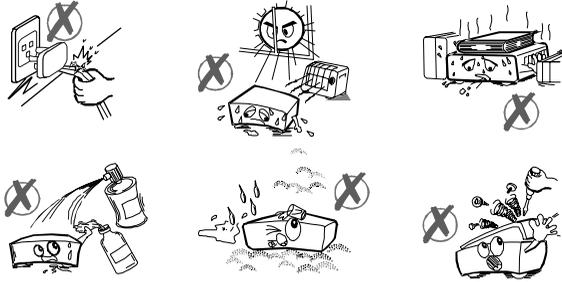
Safety Considerations

Position the cables so that they cannot be walked on or pinched by items placed on or against them.

- Please do not place the set in a place subject to direct sun light, excessive dust or mechanical shock or in a location near heat sources.
- The set should be placed on a solid and safe base. Do not place the apparatus on a soft surface such as a rug that might block the ventilation holes on the bottom.
- A location should not be selected such as a room with high humidity, as the condensation, arising in the kitchen for example, may cause malfunction or damage the set.
- Heating or other thermal radiation under the set also may cause malfunction or damage the set.
- The hot air, which arises during the operation, should be ventilated with sufficient air circulation.

Please do not put the set into closed areas and do not cover it.

- Please avoid the contact with water or humidity. Do not put into operation near bath, sinks, swimming pools etc.
- Take care to provide a good air circulation. Place the apparatus in a location with adequate ventilation to prevent heat build-up in the apparatus.
- Should any solid object or liquid fall into the cabinet, unplug the apparatus and have it checked by qualified personnel before operating it any further.



Cleaning

- ALWAYS unplug the DTR before you clean it.
- Do not use liquid or aerosol cleaners.
- Clean the DTR with a soft, damp (not wet) cloth.

Servicing

- There are no user serviceable parts in this DTR.
- When servicing, refer to qualified service personnel.
- Consult your dealer if you are ever in doubt about the installation, operation or safety of this DTR.

Electrical Information

- Read these electrical safety instructions carefully before connecting the adapter to the mains supply.
- This DTR is supplied with an internal mains adapter. There are no user serviceable parts inside and it does not require any electrical adjustments.
- This DTR is designed to operate on 220V-240V AC 50Hz supply only. Connecting it to any other power sources may damage the DTR.
- The DTR is designed for indoor use only.
- If the plug attached to the DTR is not suitable for your socket, or becomes damaged please replace the plug following the wiring instructions given on the first page.
- Periodically inspect the mains cable for damage. Do not use if faults or damage are found. Refer to qualified personnel.
- Your DTR, as with any electronic equipment, consumes power. In order to reduce power consumption, please switch the DTR to standby when not in use. If you will not be using the DTR for a long period of time, we recommend unplugging it from the mains outlet, however please remember that when disconnected from the mains the unit will not be able to make any timed recordings that have been set.



This symbol indicates that the DTR is double insulated and does not require an earth connection



This symbol indicates that the DTR is for indoor use only.



This symbol indicates that the DTR conforms to CE regulations.

	WARNING RISK OF ELECTRIC SHOCK	
	<i>The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.</i>	
	<i>The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</i>	

Environmental Markings



The "Batteries marking symbol" means used batteries must not be disposed together with your household waste. Please, inquire about the local regulations regarding disposal of used batteries. For information: the batteries supplied with your DTR remote do not contain hazardous substances such as Mercury, Cadmium, or Lead.



The "Material recyclability symbol" means the package cardboard or user manual paper is recyclable.



The "Green dot" affixed on cardboard means that this DTR contains a large number of materials that can be recycled. If you are disposing of an old product, please take it to a recycling center.

GETTING STARTED

Remove your DTR carefully from the box, and remove the packaging from each part.

In The Box

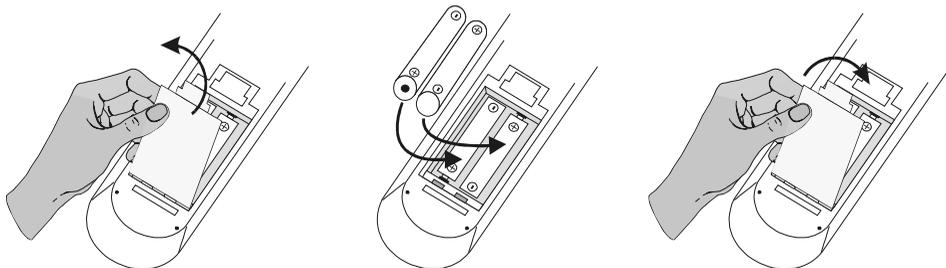
Inside your DTR package you should have;

- This user guide
- Quick Start Guide
- Digital terrestrial television DTR (DIGITAL TV RECORDER)
- 2 x 1,5 V R-03/AAA
- Remote Control
- Loop through cable
- 1 x SCART Lead

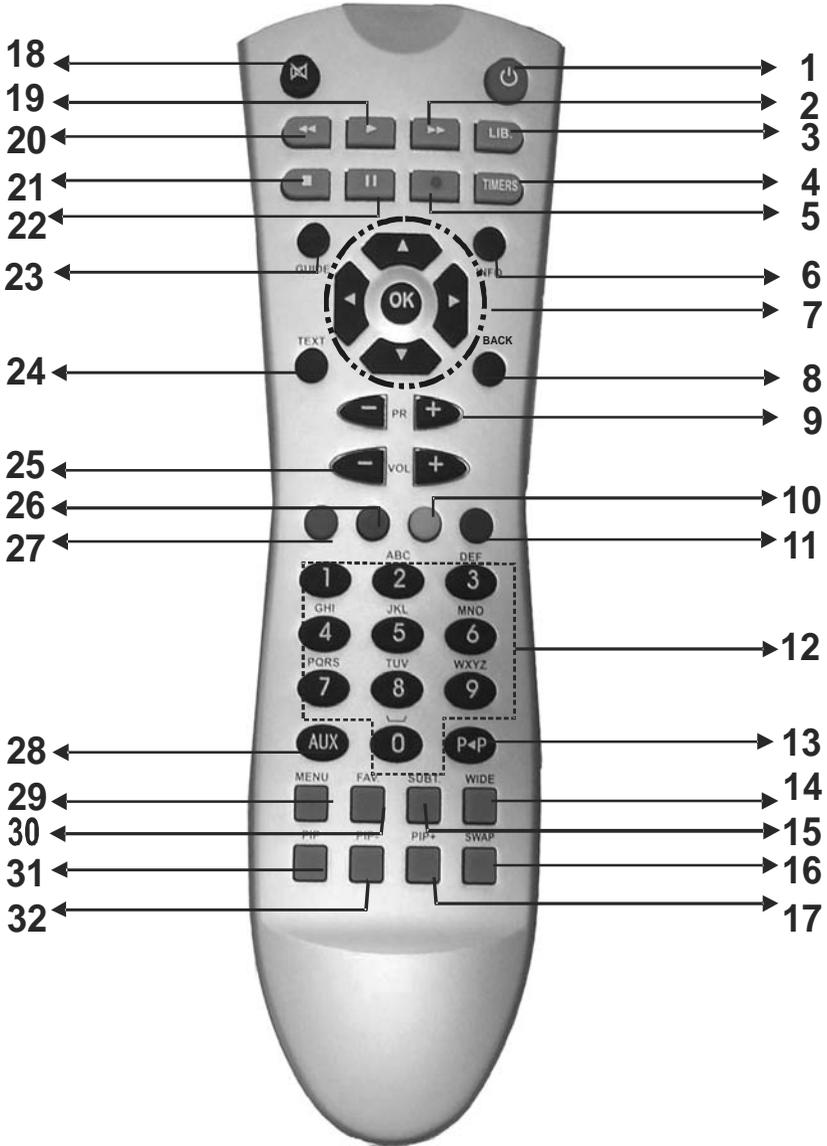
If any of these items are damaged or missing, please contact the place where the DTR was purchased.

REMOTE CONTROL & FUNCTIONS

First open the battery cover on the underside of the remote control. Insert two batteries (RO3/AAA) observing the polarities (+/-) indicated on the inside of the battery compartment and put on the battery cover again. While using the remote control, direct it towards the front of the DTR ensuring that there are no obstructions in the path between the remote and the DTR. If the remote control does not work or the chosen function does not work, the batteries are most probably exhausted and they should be replaced as soon as possible. It is best to remove the batteries from the remote unit if it will not be used for a long time.



REMOTE CONTROL LAYOUT



Using the Remote Control

- To use the remote control, point it towards the front of the DTR.
- The remote control has a range of up to 7 metres from the DTR at an angle of up to 60 degrees.
- The remote control will not operate if its path is blocked.

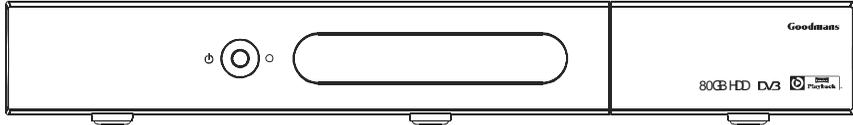
NOTE: Sunlight or very bright light will decrease the sensitivity of the remote control.

REMOTE LOCATION OF CONTROLS

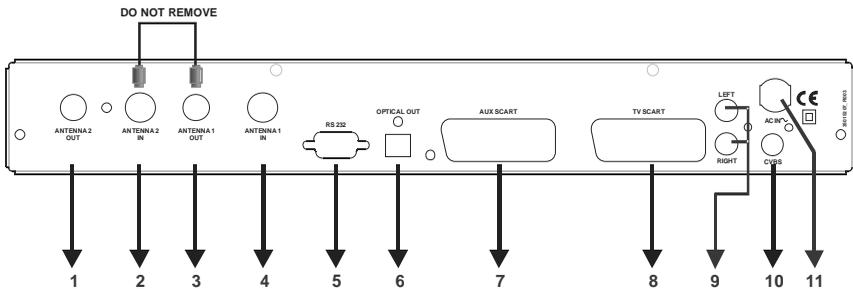
BUTTON	FUNCTION
1. Standby	ON / Standby
2. ►►	Search Forward
3. LIB.	Library of recordings
4. Timers	Timer Setup
5. 	Record key
6. Info	I-Bar
7. Direction buttons / OK	Navigation / Skip 30 seconds (left/right)
8. Back / Exit	Exit
9. P+ / P-	Channel Up / Down
10. Yellow	Yellow Teletext function key
11. Blue	Blue Teletext function key
12. Number keys	Numerical keys
13. P ◀ P	Swap channels (with last viewed channel)
14. Wide	TV aspect ratio mode
15. Subt.	Show / Hide Subtitles
16. Swap	Swap the channels shown on the PIP window and normal screen
17. Pip +	PIP Window Channel Up
18. Mute	Mute
19. ▶	Play
20. ◀◀	Search backward
21. ■	Stop
22. II	Pause / Timeshift
23. Guide	Electronic Program Guide
24. Text	Display Teletext
25. V+ / V -	Volume UP / DOWN
26. Green	Green Teletext function key
27. Red	Red Teletext function key
28. Aux	Toggle between TV and the input from any equipment connected to the AUX scart
29. Menu	Enter menu / Exit menu
30. Fav	Favourite list
31. Pip	Show / Hide PIP window
32. PIP-	Previous channel in PIP window

YOUR DTR

FRONT PANEL



BACK PANEL

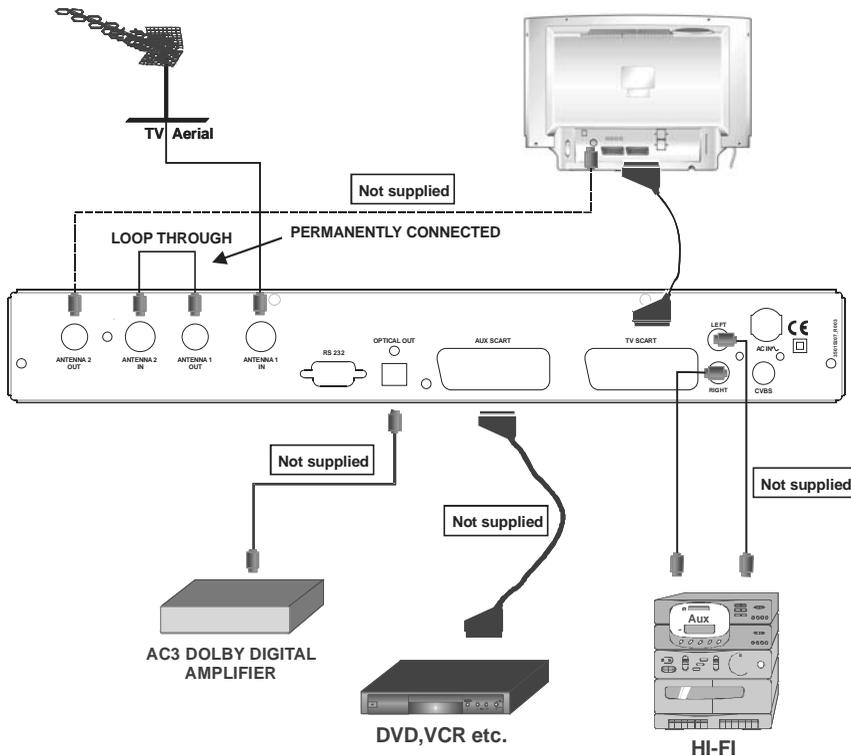


- | | |
|-------------------------------------|--|
| 1. AERIAL 2 OUT | : Aerial loopthrough output - Connect to TV aerial socket. |
| 2. AERIAL 2 IN | : Loop through |
| 3. AERIAL 1 OUT | : Loop through |
| 4. AERIAL 1 IN | : Aerial input |
| 5. RS232 | : Factory use only |
| 6. OPTICAL SPDIF | : Optical Digital Audio Output |
| 7. DVD/AUX SCART | : Input for external equipment such as DVD player etc. |
| 8. TV SCART | : TV Scart connection |
| 9. ANALOGUE AUDIO LEFT/RIGHT | : Analogue Audio output |
| 10. CVBS | : Composite video Output |
| 11. MAINS CABLE | : Connect to 220-240V AC, 50 Hz mains electricity supply |

Important Note: It is not possible to record from external equipment connected to the AUX SCART socket.

CONNECTION DIAGRAM

The following diagram shows typical configurations only, and may differ slightly to your existing external equipment. If you are unsure on how to connect to your DTR, always consult your manufacturer's user guide supplied with your equipment.

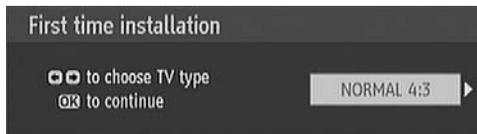


NOTE: This set top box supports Free To View only. There is no provision for a CAM or Pay To View card. Please note it is not possible to record any input from the DVD/AUX SCART. The DVD/AUX SCART is only used for loopthrough.

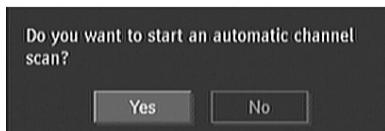
MENU INTERFACE

FIRST TIME INSTALLATION

When the DTR is switched on from stand-by mode and if there is no channel stored in the database, the First Time Installation Menu window is displayed on the screen. In this window, set the TV type with the “◀ / ▶” keys and press OK to continue.



Automatic channel scan window appears and the unit commences to search for channels.



MAIN MENU

Navigating the on screen display (OSD)

Most of the OSD functions are controlled by the following keys on the remote control:

Up/Down arrow keys	Move one item up or down
Left/Right arrow keys	Move one item left or right
OK key	Change the setting of a configurable item
Exit key	Confirm the current action
Colour keys	Close the menu screen
	These buttons are used for different functions depending on what OSD is shown on the screen. Please see the I-Bar at the bottom of each OSD for details.
i-key	Show help guide for OSD (where available)
Numerical keys	Switch to a specific channel
	Enter number values for timers

Enter letters for channel and recordings´ names as follows:

- 1 - abc
- 2 - def
- 3 - ghi
- 4 - jkl
- 5 - mno
- 6 - pqr
- 7 - stu
- 8 - vwx
- 9 - yz
- 0 - + - * / !

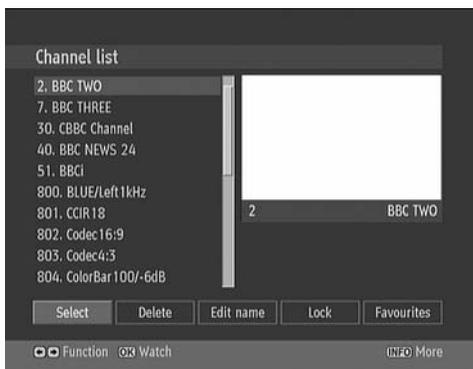
Main menu is accessed by pressing the MENU key on the remote control. Navigate using the “▲/▼” keys and press OK to enter sub-menus. Press the BACK/EXIT button to return to the previous menu.



CHANNEL LIST

The channel list gives a list of channels, where the following operations can be performed :

1. Navigating channels
2. Deleting channels
3. Renaming channels
4. Adding parental controls to channels
5. Creating/Editing favourite list



NAVIGATING CHANNELS, USING THE CHANNEL LIST

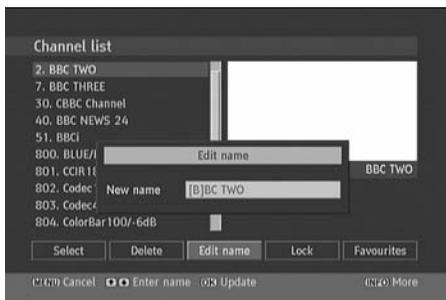
Use the "▲/▼" keys to highlight the required channel. To view the highlighted channel, press OK key while the Select option at the bottom of the screen is highlighted. If the selected channel is password protected then a pop up menu is display, enter the PIN number using the NUMERICAL keys.. If the correct code is entered, the selected channel will be displayed. The scroll Bar in middle of the screen shows relative position of the currently visible channels with respect to the whole list.

DELETING CHANNELS

To delete a channel highlight it using "▲/▼", then highlight the "Delete" button using "◀/▶" and press OK. A message is displayed to confirm, if the channel is to be deleted select "YES", using "◀/▶" buttons or to cancel, select "NO" and press "OK".

EDIT CHANNEL NAME

To rename a specific channel, highlight the channel and select the "Edit Name" button using the "◀/▶" buttons and press OK. A edit name box is shown on the screen. Use "◀/▶" to move to the previous/next character. "▲/▼" cycles the current character, i.e., 'b' character becomes 'a' after pressing "▼" or 'c' after pressing "▲". Pressing the numerical buttons '0...9' replaces the highlighted character with the characters printed above the button one by one as the button is pressed (similar to writing a text message on a mobile phone). To cancel the name edit press the BACK/EXIT key or press OK to save the new name.



ADDING PARENTAL CONTROL TO CHANNELS

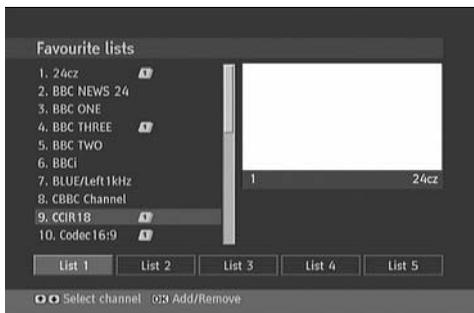
Parental control provides a PIN-protected access to channels. To lock a channel, from the channel list menu highlight the channel to be locked and select the "Lock" button with the "◀ / ▶" keys and press the OK key on the remote. A PIN entry box will be shown on screen, enter the PIN number using the numerical keys (the default PIN number is 0000 and can be changed from the Configuration menu). Enter the parental Lock PIN, press OK and the Lock icon will be displayed next to the selected channel. Repeat the same operation to remove the Lock.



CREATING / EDITING FAVOURITE LISTS

Favourite lists provide an easy way to group programs in a customisable way. Five favourite lists are available named as List1, List2, List3, List4 and List5.

- From the channel list use the "◀ / ▶" buttons to highlight "Favourites" button and press OK to enter the "Favourite Lists" menu.
- Use the "◀ / ▶" buttons to select the favourite list to be created/edited (List1/List2/List3/List4 or List5).



- Use the (up/down) keys to highlight the channel to be added to the list and press OK. To add further channels to the list repeat this procedure.
- Repeat the above steps to remove the channels from the list.
- Once complete, press MENU to save your settings.
- Press the FAV key on the remote to cycle through the available favourites list (LIST1 to LIST5). The PR+ and PR- buttons will cycle through the channels stored in the currently selected favourites list.

INSTALLATION

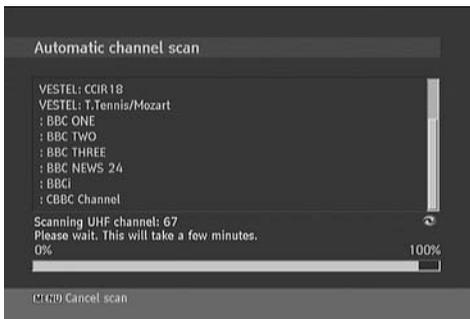
The installation menu provides two different channel searches as well as the First Time Installation feature. In order to access it, press the menu key then select SETUP using the "▲ / ▼" keys and press OK. From the submenu select Installation using the "▲ / ▼" keys and press OK. Please note that performing a First Time Installation will delete your channel list and reset every menu setting to its factory default, however it will not delete recordings already stored on the hard drive.

AUTOMATIC CHANNEL SCAN

It is recommended to use the automatic search if several channels in your channel list are no longer being broadcast or if new channels have become available. The automatic search will create a new channel list out of all available channels and replace the previous channel list. As it searches every available channel, the process may take several minutes to complete.

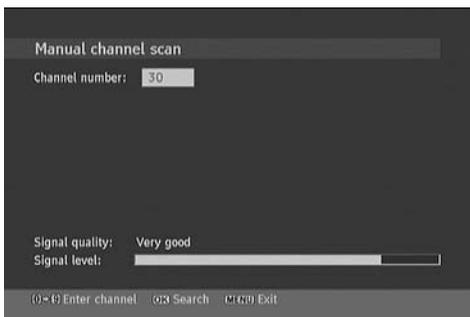


Automatic channel scan is activated by pressing OK when the Automatic Channel Scan option is highlighted. A pop-up menu is shown on the screen, select "YES" to start. All the multiplexes are searched and a channel table is created automatically. All channels found are stored in a sorted form with respect to their channel numbers. To cancel the scan select "NO" from the pop-up menu.



MANUAL CHANNEL SCAN

The manual search is quicker as the channel number for the multiplex has to be specified and therefore the DTR only has to tune into the one channel to find stations. However the channel numbers must be known before attempting this method and therefore this is only designed for more advanced users. **In manual search the UHF channel number of the multiplex is entered manually and only that multiplex is searched for the channels. In manual and auto search, any existing channel in the database is not re-stored to avoid redundant duplicates of that channel. To start the scan enter the channel number manually and press OK.**



FIRST TIME INSTALLATION

Use this option to load default settings, which had been set at the factory. To install factory settings, highlight 'First Time Installation' menu and press OK key, then you will be asked to confirm deleting all channels and settings. Selecting YES and pressing OK will delete the channel table. Selecting "NO" and pressing OK will cancel the operation.

TIMERS

Timers can be used to set recording timer for a certain channel and time. The recording will start in background, using the second tuner allowing continued watching of a different programme during the recording.

NOTE: If two timers are set to record over the same period then only the two channels used in these timers will be viewable.

In order to set a timer, press the TIMERS key on the remote (or access via the TIMERS option on the main menu) and press the yellow button to add a timer. The following options then need to be set:



Use "▲/▼" keys to navigate to select the below options.

Channel: Use the "◀ / ▶" keys to select the channel to record.

Date: Using NUMERICAL KEYS enter the date for the recording

Start: Using NUMERICAL KEYS enter the start time for the recording

End: Using NUMERICAL KEYS enter the end time for the recording

Duration: Displays the duration of the recording. This is automatically calculated after the start and end times have been entered and cannot be adjusted directly.

Repeat: By using "◀" / "▶" keys, repeat mode is set to "Once", "Daily" or "Weekly". Using this option, it is possible to set the timer so that it is repeated "Once", "Daily" (timer will record at the same time every day), or "Weekly" (timer will record at the same time on the same day every week).

Playback: Change the playback rights for this recording "use parental settings" is default. There are three possible settings as follows:

"Use parental settings": If this option is selected, playback will follow the parental control settings for the channel recorded from. i.e. if the channel is locked and therefore requires PIN entry to view, the recording will require PIN entry to view. If the channel is not locked, PIN entry is not required. (Please note, changing the parental settings after the recording has been made will not affect the recording.)

"Allowed": Playback of the recording is allowed no matter what the parental settings for the channel recorded from is set to. If allowed is selected the Enter PIN dialogue will be displayed. Enter the PIN number using the NUMERICAL keys and press OK.

"Disallowed": PIN entry will be required on playback of this recording.

Change /Delete: Allow or do not allow any modifications of this recording. There are two possible settings as follows:

"Allowed": Users will be able to edit/delete the timer (before recording) and delete the recording once made without entering PIN number.

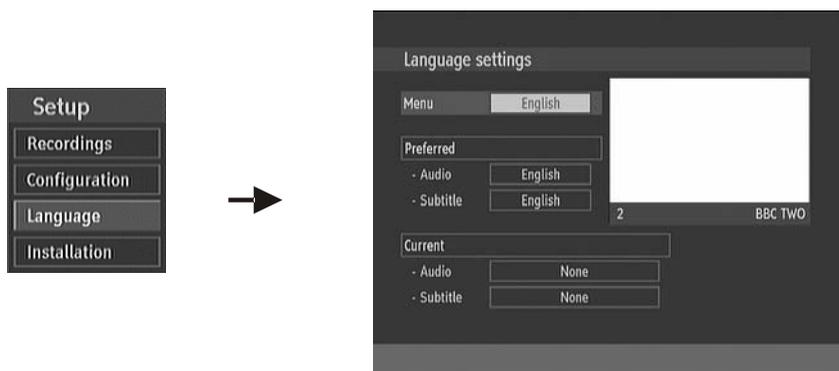
"Disallowed": Users must enter PIN before editing/deleting timer (before recording) and when deleting the recording once made.

When a timer Start time is reached, the DTR starts to record the desired program, then when the end time is reached, the recording stops. Save the timer by pressing the GREEN key or cancel any changes made using the RED button. Edit the list via GREEN key and delete with the RED button.

To edit an existing timer highlight that timer in the timer list and press the GREEN key. To delete a timer from the timer list, highlight that timer in the list and press the RED key.

LANGUAGE

In this menu the user can adjust the preferred language. Language is changed by pressing OK key.



System: shows the language used for all of the menus, on this model this is fixed to English

Preferred

These settings allow the preferred languages to be set for the audio and subtitles. The options set here will be used for the audio or subtitle language automatically (if the relevant language is being broadcast).

- **Audio:** Use the “◀/▶” keys to change the audio language.
- **Subtitle:** Use “◀/▶” keys to select the preferred language to use for the subtitles if available when selecting subtitles.

Current

- **Audio:** Use the “◀/▶” keys to select the audio language from the currently broadcasting language options.
- **Subtitle:** Use “◀/▶” keys to select the subtitle language from the currently broadcasting language options

ELECTRONIC PROGRAMME GUIDE (7-DAY-EPG)

Press the GUIDE button to display the EPG. The 7-day EPG is able to show the TV programmes for all channels for the next 7 days (if the information is being broadcast by the different channels). To advance the day that the information is shown for press the blue button. To go back a day press the yellow button. Only information for the following 7 days will be shown. Past programmes will not be shown.



Use “▲/▼ / ◀/▶” to navigate the guide and highlight a programme. Across the bottom of the screen there is an info bar showing all the available commands which are listed below.

RED KEY (SHRINK) : Shrink the guide so that the EPG shows more time. This will result in the information shown being more condensed.

GREEN KEY (EXPAND) : Expand the guide so that less time is shown on the screen.

YELLOW KEY (PREV DAY) : Show the information for the previous day.

BLUE KEY (NEXT DAY) : Show the information for the following day.

INFO KEY (DETAILS) : Show/Hide the information panel for the currently highlighted programme.

RECORD KEY (RECORD) : Set a timer to record the selected programme.

NUMERICAL KEYS (JUMP) : Select a channel to display information for directly using the numerical keys.

OK KEY (VIEW / REMINDER) : View the highlighted channel / set the reminder for future programs

TEXT (SEARCH) : Activate “Search” window.

◀ KEY (PAGE LEFT) : Scroll the page to the left.

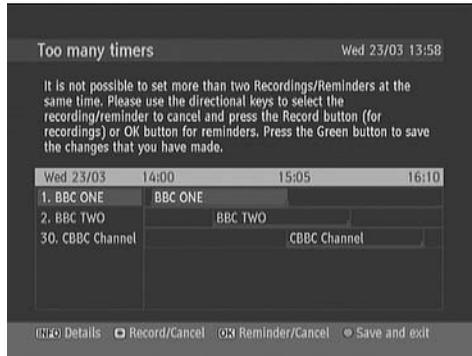
▶ KEY (PAGE RIGHT) : Scroll the page to the right.

▶ (NOW) : Return the guide to display the current time.

Important Note: If during a programme there is a break for a news update (or similar) the programme information in the guide may be split into two parts. For example a film may start at 20:00 and finish at 22:00 but at 21:00 there is a news update. The film will therefore be split into two parts, one part for example 20:00 to 20:59 and the second part may be 21:02 to 22:00. To record the entire film, please ensure both parts are selected.

MULTIPLE TIMER RECORD

It is possible to record or set reminder for two individual events at the same time. If you set more than two recordings/reminders at the same time, you will see an error message.



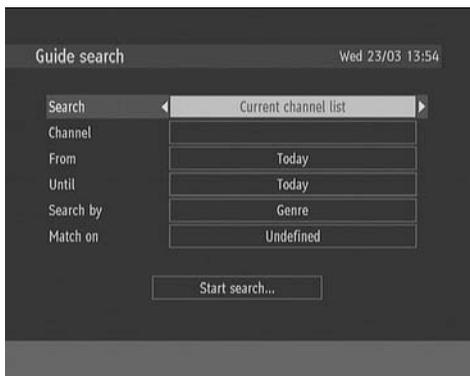
In this case, please use the directional keys to select the recording/reminder to cancel and press the RECORD button (for recordings) or OK button for reminders. Press the GREEN button to save the changes that you have done.

SEARCH FUNCTION OF THE EPG

Using the search function of the EPG, you are able to search a programme according to its genre or name. From this list it is possible to set the DTR to record the event. Firstly, press the "GUIDE" button on your remote control, to display the EPG.



With the EPG shown on screen press the TEXT button on the remote control to display the SEARCH menu.



Search: Indicates the source, where the search should be done. Using the “◀ / ▶”keys, instruct the DTR where to search for the requested programme. The options are as follows:

Current Channel list: Search only the channels that are listed in the current channel list. For example if you have activated the favourites mode then this will search only the channels in the currently selected Favourite list.

Single Channel: Will only search the single channel as specified in the "Channel" option

All Channels: Will search all channels stored on DTR and is not limited by which favourite list is selected.

All TV channels: Will search the information for all TV channels only

All radio channels: Will search the information for all radio Channels only.

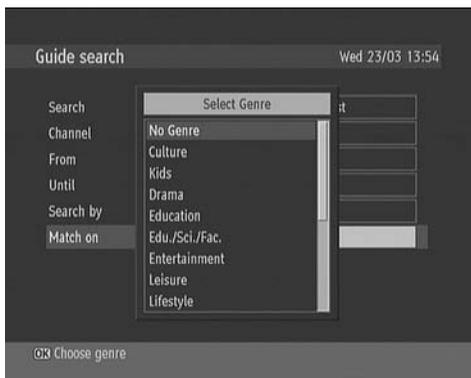
Channel: This option will only be editable, if you select “Single channel” from the “Search” option.

From: Select the first day to start search for the required information.

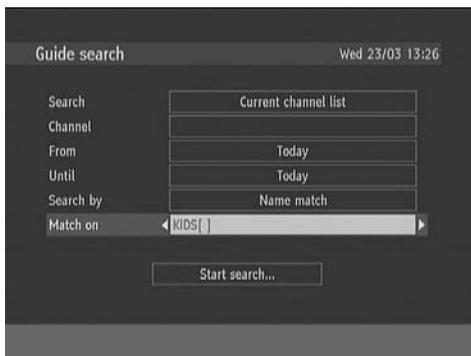
Until: Select the last day to search for the required information (if this is set to different date as the From date then all days in between will be searched).

Search by: Select to search by "Genre" (type of programme) or by "Name Match" - Please note, not all channels may broadcast the Genre information therefore these events may not be listed when searching by Genre.

MATCH ON (Genre): If genre is selected for the "Search by" option select the "Match On" option and press the OK button. The following list of Genres will be shown. Select the required Genre using the "▲/▼" keys and press OK.

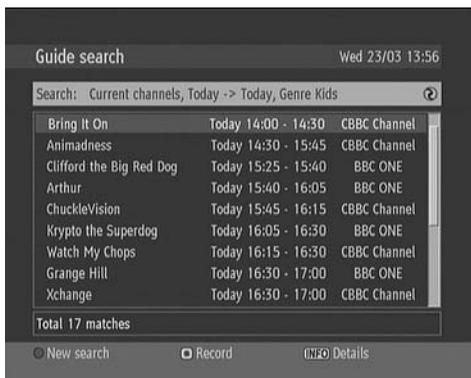


MATCH ON (Name Match): If name match is selected for the "Search by" option select the "Match On" option and use the numerical keys or the "▲/▼ / ◀/▶" keys to enter the text to match.



After setting the above options, highlight the "Start search" option and press the "OK" button to start the search.

The DTR will then display a list of the events found that match your search criteria. This may take several minute to find all of the entries, especially if several days have selected to be searched. Select a programme from the list and press the record key on your remote control, to set a recording for that programme.



MESSAGES

When there is no signal being received (e.g. the aerial cable is disconnected), "NO SIGNAL" message will be shown on the TV screen.



If no channels are found during a channel scan the "NO CHANNELS HAVE BEEN ADDED YET. PLEASE GO TO THE INSTALLATION MENU TO ADD CHANNELS" message will be shown on the screen. If this is shown please check that an aerial is connected and there are Freeview transmissions in the area, then press ok and scan for channels.



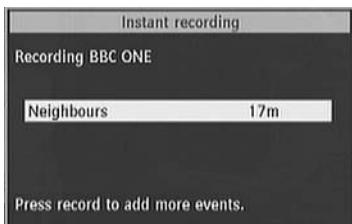
SPECIFIC FUNCTIONS OF REMOTE CONTROL

When there is no menu displayed on the screen, each of the keys on the remote have the following functions.

OK KEY: when OK key is pressed Channel list appears on the screen.

RECORD KEY

The current programme is recorded to the end (based on information from the EPG). To record the following programme as well press the RECORD key  again.

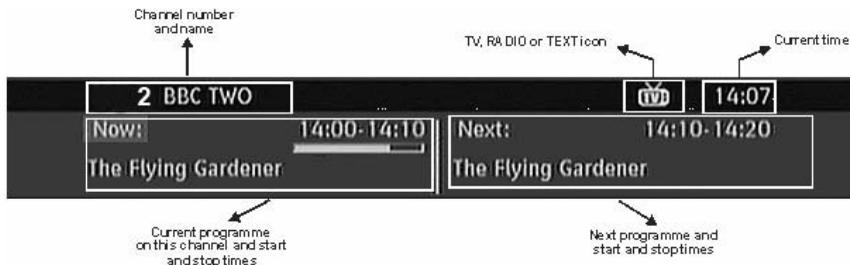


LIB KEY: Display the recordings library (see page 23 for further information)

SUBTITLE : Display/hide the subtitles for the currently viewed programme (if being broadcast).

INFO KEY

When the INFO key pressed (or when changing channels) the i-bar is displayed as shown below:



To view a brief description of the current programme press the INFO button again. To view a brief description of the next programme press the (right) button. To hide the brief description window press the INFO button again.

With the i-bar showing use the "▲/▼" keys to view the now next information for other channels. The brief description for these events can be shown by pressing the INFO button as described above.

PR+ / PR - (CHANNEL NAVIGATION)

There are several ways to navigate through the channels:

- Pressing PR +/ PR - keys will take you to the next or the previous channel in the list.
- Pressing a number key will activate a small digit entry window on the left upper corner of the screen. After a digit is entered, the box will stay for 2 seconds while you enter another digit. If no digit is entered during these 2 seconds, then the box will switch to the entered number channel. If a number that is greater than the maximum number of channels is entered, the box will switch automatically to the last channel.
- Press OK button to display the channel list.

VOLUME CONTROL

The volume level of the sound from the DTR can be altered with the VOL+ and VOL- keys on the remote control handset. Pressing either key displays a bar graph of the sound volume on the TV screen. The volume level selected will remain set, even when the DTR is turned off and on again, until it is altered with VOL + and VOL - keys. The audio volume adjustment for the DTR is independent of the volume control on your TV set. Be careful that both volume controls are kept within reasonable levels so that when switching from analogue to digital television viewing, or when first turning on your TV set, the sound level is not too high.



You can silence the sound from the DTR by pressing the MUTE key. The sound remains muted until the MUTE key is pressed again, the VOL + or VOL - keys are pressed. While the sound is muted in this way, the mute symbol is displayed in the top left of the TV screen. The symbol is removed after 3 seconds, but the sound will remain muted until the MUTE key is pressed for the second time and the mute symbol will display for 3 seconds.



PIP (PICTURE-IN-PICTURE)

When the DTR is not recording/or playing back a recording, it is possible to display the PIP (picture in picture) window. This allows a second channel to be viewed in a small window in the corner of the screen however it is not possible to select the audio from this PIP window. To display this window press the PIP button.

- **PIP +:** Display the next channel in the PIP Window.
- **PIP -:** Display the previous channel in the PIP window.



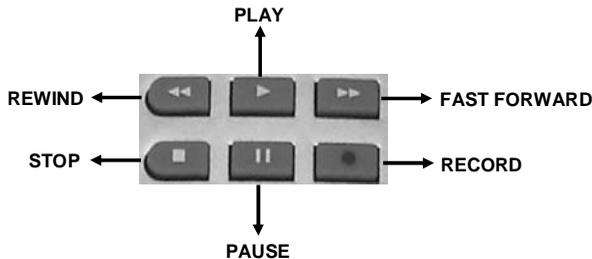
SWAP: Main window and PIP window swap channels.

RECORDING & PLAYBACK

The internal hard drive can store up to 35 hours of digital TV broadcast (depending on the data rate of the recorded programme, which is set automatically by the broadcaster).

Because the DTR has a Twin Tuner it is possible to record two events and watch two programmes at the same time. However when recording two events at the same time, it is only possible to watch one of those two channels. (when recording one channel it is possible to watch any other channel in the channel list). It is also possible to playback a recording previously made during an active recording.

The DTR record and playback functions are very similar to those of a VCR. The buttons used for playback and recording are shown below.



To configure the playback/recording options select the "Recordings..." option from the setup menu. The following option are available for adjustment:

MAX TIMESHIFT:

Select the maximum time allowed for timeshifting. See below for more information on timeshifting.

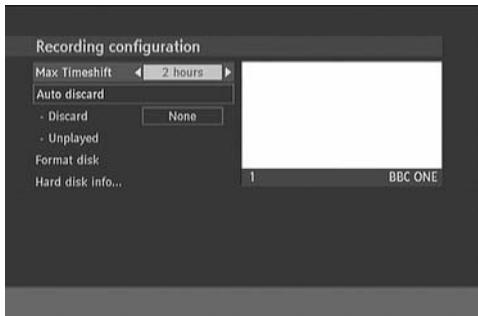
AUTO DISCARD:

Discard: When the HDD is full and a timer is set to record, the unit will automatically discard previous recordings based on this setting. The options are as follows:

None: The unit will not discard any recordings and the timer will not record the requested programme.

Oldest: Starting with the oldest, recordings will be deleted to make space for the requested timer.

Longest: Starting with the longest, recordings will be deleted to make space for the requested timer.



Shortest: Starting with the shortest, recordings will be deleted to make space for the requested timer.

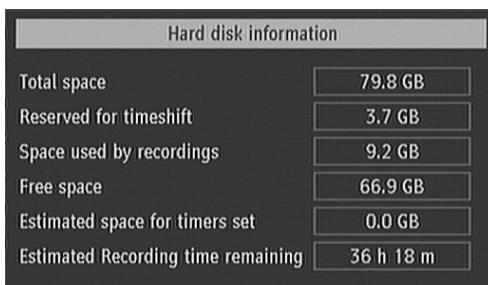
Unplayed: If this option is set to "EXCLUDED" any unplayed recordings will NOT be deleted. If this option is set to "INCLUDED", unplayed recordings WILL be deleted according to the rules set in the DISCARD option described above.

FORMAT DISK:

On rare occasions the Hard Disk may malfunction, in most cases formatting the Hard Disk will restore normal operation however ALL the data stored on the Hard Disk will be lost. Press OK with the "Format Disk" option is highlighted. A PIN entry window appears, in which you will be asked for a pin number. If you have not changed the pin number, the factory default is 0000. After you enter it, a pop-up menu appears on the screen to ensure that the hard disk should be formatted, select "YES" and press OK to format the Hard Disk. Select "NO" and press OK to cancel. Ensure you dub important recordings onto Video or DVD before you format the HDD. As all the information on the hard drive is deleted when formatting the hard drive, please ensure that all important recordings have been recorded on to Video or DVD using an external recorder.

HARD DISK INFO:

To view the details about the Hard disc, highlight "Hard Disk Info..." using the "▲/▼" keys and press OK. The following information will be shown:



Hard disk information	
Total space	79,8 GB
Reserved for timeshift	3,7 GB
Space used by recordings	9,2 GB
Free space	66,9 GB
Estimated space for timers set	0,0 GB
Estimated Recording time remaining	36 h 18 m

Total Space: The total size of the Hard Drive

Reserved for timeshift: This is the space that is reserved for use by the timeshift function and is dependant on the setting in "Max timeshift" (see page 27 for details)

Space used by recordings: The space used by the recordings that are on the Hard Drive

Free Space: Available space for future recordings

Estimated space for times set: The estimated space on the hard drive that will be used for the any timers that are currently set

Estimated Recording Time after: This is the estimated remaining time left available for recordings.

UNRECORDABLE MATERIAL:

In the unlikely event that there is some problem like loss of recorded video or audio content due to an HDD malfunction, please be aware beforehand that we will bear no responsibility to compensate for the content which could not be recorded for the loss of recorded video, or for other related direct or indirect damages.

■ **If a power failure occurs**

- The content being recorded or timer recorded may be damaged if power failure occurs.
- The content being played back may be damaged.

■ **For important recording**

- If the HDD malfunctions, the content recorded on the HDD may be lost. If you wish to save content permanently, we recommend copying or moving the content to Video or DVD via an external VCR or DVD recorder

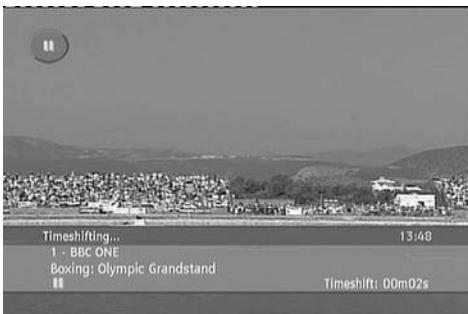
HARD DISK OPERATION (RECORDING / PLAYBACK / TIME SHIFT RECORDING):

If the DTR is used in a cold location (a location at low temperature), the drive will only allow live viewing after power is turned on until the HDD is ready. During this time, the DTR will not allow Time Shift Viewing, recording, display of recording lists or playback of recorded programmes. Please wait until the HDD is ready.

TIME SHIFTING (PAUSE LIVE RECORDING)

Pause Live TV is a feature that enables the live TV to be paused if, say the phone rings it is possible to pause the live TV until after the end of the phone call (or the maximum time for timeshifting has been reached).

Press PAUSE  key to enter TIMESHIFT mode. The timeshift information will be shown in the I-Bar and the pause symbol will be shown in the top left corner of the screen. The maximum duration of Timeshift can be adjusted from recordings submenu of the configuration menu in the Configuration menu (see above for details). To start viewing the



paused broadcast press the play button. Press the  key repeatedly to search backwards at different speeds (up to the point where the pause button was pressed).

Press the  key repeatedly to search forwards at different speeds. If the recording then catches up with the live broadcast, the timeshift will stop and normal live broadcast will be shown. To cancel timeshift and return to live broadcast press the  (STOP) key.

NOTE: It is not possible to change channels whilst in Timeshift mode

TEXT

Many digital terrestrial television channels not only broadcast pictures and sound for programmes but also pages of information on the programmes, the weather, news and many other topics. This digital teletext can be displayed by this DTR. Some channels are entirely given over to digital teletext and carry no normal TV programme at all.

These dedicated digital teletext channels will not give a quarter-screen image in the Channel List screen. When such a channel is selected, after a brief pause, they will usually display the opening page of information automatically. Other channels have digital teletext pages broadcast alongside the television programme and often include a reduced-size broadcast picture within digital teletext pages. These usually require the TEXT button to be pressed to activate the digital teletext pages. In both cases, moving through the different pages of information is accomplished in a variety of ways, dependent on the individual broadcasters, but normally the "▲/▼/◀/▶" are used to navigate to a page title and the OK Key is used to enter a page or confirm a selection. The coloured keys are often used to jump directly to particular pages.

It is possible to exit teletext mode by pressing the TEXT button on the remote or by changing channel.

WIDE

TV sets are available with screens of the standard (4:3) format and widescreen (16:9) format. When the DTR is first installed the format of the connected TV is specified (this can also be altered if necessary; via the configuration menu) Digital terrestrial television broadcasts are also made in both standard and widescreen formats. In particular, films and dramas tend to be broadcast in widescreen format to closer emulate the cinema experience, but some programmes such as news bulletins are 4:3. So long as the DTR has been correctly set up for the TV set connected, a widescreen programme will always be displayed correctly on a widescreen set, and a standard format programme will correctly fill the screen of a standard format TV.

With a widescreen TV set displaying a standard format programme the WIDE key switches between displaying the picture with black bars down the sides, and enlarging the picture so that it fills the whole width of the screen but the top and bottom are cropped off. With a standard format TV displaying a widescreen programme, the WIDE key switches between displaying the picture with black bars at the top and bottom of the screen, and filling the whole height of the screen but cropping the sides off according to instructions broadcast with the programme (called 'pan and scan'). The effect of the WIDE

key on the picture display is cancelled by pressing WIDE again, changing channel or turning the DTR to standby.

NOTE:

Sometimes the TV will automatically try and compensate for an incorrect screen format, in this instance set the tv to the correct format whilst viewing the programme.

16x9 picture on widescreen TV



4x3 picture on widescreen TV



16x9 picture on normal TV



4x3 picture on normal TV



RECORDINGS LIBRARY

The recordings library is a library of all the recordings that have been made. It provides information about every recording, like the name (if the recording was made via the EPG)/channel, date, time and length of programme. It also shows if playback has already been started of the selected recording.

To show the list of recordings press either LIB button on the remote or access it from the main menu.

- RED BUTTON (DELETE)** : erases the selected recording.
- GREEN BUTTON (EDIT)** : edit the Delete and Playback settings for this recording (for details of playback and delete settings please see timer section on page 15).
- YELLOW BUTTON (PLAY)** : displays the "Play from..." box to select the start position



- BLUE BUTTON (SORT)** : Sort the recordings by the following options:
 - Name,
 - Name Reversed,
 - Start, oldest file first
 - Start, Newest file first
 - Length, Shortest file first
 - Length, Longest file first
 - Unviewed first
 - Viewed first
- INFO (DETAILS)** : brief description for the recordings (only available for recordings set using the EPG).
- OK (START)** : play the selected recording from the start
- ▶ (RESUME)** : play the selected recording from the last viewed point



Under the list of recordings there is a visual guide to the space left on the hard drive. The colours indicate the following:

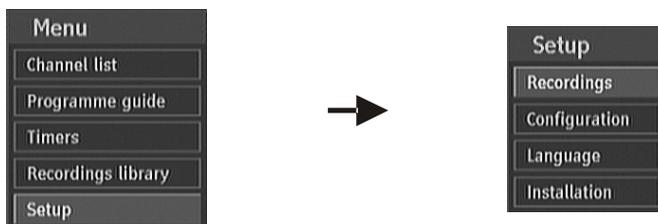
Red bar: indicates the used space of the recordings on the hard disk.

Yellow bar: displays the approximate capacity required for the timers currently set.

Green bar: shows the free space on the hard disk.

SETUP

The configuration, language and Installation sub-menus are accessible via the setup menu

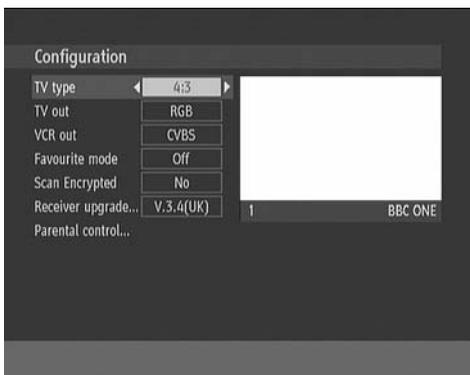


CONFIGURATION

This menu contains the configuration settings for the DTR. You can configure the settings of your set top box. Select Configuration from Setup menu and press **OK** to enter this menu. Press the **BACK** button on the remote to exit.

TV TYPE

During the first time installation the type of TV that the DTR is connected to is chosen. This option allows that setting to be adjusted should the DTR be connected to another TV without having to perform the first time installation. It is important to choose the correct setting so that the correct video format is output to the TV.



TV OUT

The DTR can output RGB , CVBS and S-Video signal via the TV SCART on the rear panel. Although the RGB format results in a better quality picture, not all equipment can display an RGB signal. Please check the instruction manual supplied with the connected TV for the correct setting to use here. Use “◀ / ▶” to adjust this setting accordingly.

VCR OUT

The DTR can output CVBS (composite) or S-Video output via the AUX/VCR SCART on the rear panel. Please consult the instruction manual for the external device connected to this socket for which video format to select. Use “◀ / ▶” to adjust this setting accordingly.

FAVOURITE MODE

Use “◀ / ▶” to select the desired favourite list (please see page 14 for setting up favourite lists). To cancel favourite mode change this setting to "OFF".

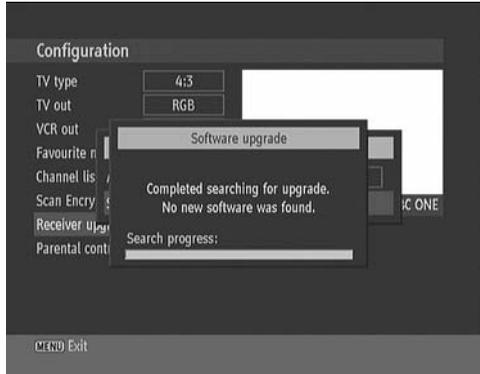
SCAN ENCRYPTED CHANNELS

It is not possible to view encrypted channels using this DTR. Therefore this option will instruct the DTR to ignore these encrypted channels. Use “▲ / ▼” buttons to go to the Scan Encrypted Channels option. Use “◀ / ▶” buttons to toggle YES or NO.

DTR UPGRADE - OAD

Over Air Download (OAD): To ensure that your STB always has the most up to date information. Please ensure that after use it is set to its standby mode. The STB automatically powers up at 3.00 A.M. each day and searches for any new information which may be broadcast and will download this to your DTR automatically. This operation will normally take approximately 30 minutes. If you have an important recording to make at 3.00 A.M. which must not have a 30 minutes interrupt then you can disable the auto OAD search by performing the following:

- Press Menu button and using the “▲/▼” buttons to choose Setup and press the OK button.
- Highlight Configuration menu with “▲/▼” keys and press OK.
- Use “▲/▼” buttons to choose "DTR UPGRADE" and press OK button.
- Using the “◀ / ▶” button change “Automatic scanning” from Enabled to Disabled.
- Highlight “Scan for upgrade” menu with “▲/▼” keys and press OK to commence upgrade.



Do not forget to re enable the automatic OAD function after you have made your recording by repeating the above instructions but this time selecting ENABLE.

NOTE: If there is no new software version available, this procedure will take about 20-30 seconds.

PARENTAL CONTROL

Use “▲/▼” buttons to go to Parental Control option. Press OK button to enter the menu. A box asking for the lock key is displayed. The key is set to “0000” initially. Enter lock key. If it is incorrect, “Wrong Pin” is displayed. If it is correct, the Parental Control Menu is displayed.



MENU LOCK

In menu lock you can set locking for All Menus, or just the Installation Menu to restrict access to these menu's. If the menu lock is disabled. Although it is possible to delete channels that are not suitable for younger audiences from the channel list, it is very simple to add this channel again by performing a channels search. The menu locking option allows PIN controlled access to either all menu or just the installation menu to prevent these channels being added. Use the “▲/▼” buttons to highlight the menu lock option and then use “◀ / ▶” keys to adjust the setting to one of the following.

DISABLED : All menus are unlocked and do not require a pin to access.

ALL MENUS : All Menus are accessible only with the correct PIN number. With this level of Menu lock it is not possible to add, delete or rename channels.

INSTALLATION MENU : With this setting only the installation menu is locked. With this level of menu lock it is not possible to add new channels.

Please note, any changes made will not be updated until all menu have been exited

SET PIN

Use “▲/▼” buttons to highlight the “Set PIN” option. Press OK to display the “Set PIN” window. Use NUMERICAL keys to enter new pin number then enter the PIN number again in the second box. If both pin numbers are four digits long and are identical, “PIN Changed” will be shown in the set pin box for a few seconds and then the set PIN box will close. At this point the new PIN number is active.



TECHNICAL SPECIFICATIONS

GENERAL CHARACTERISTICS	
Supply Voltage	220 - 240 V AC ~ 50Hz
Input Frequency	470Mhz-862Mhz
Maximum Power consumption	21 W
Standby Power Consumption	11.7 W
Operating temperature	5°C to +45°C
Storage temperature	-15°C to +55°C
Humidity	25 to 75 % rel
Physical dimensions	360x280x48 mm
Weight	2820 g
HARDWARE CONFIGURATION	
Main Processor	STM5100
Flash Memory	4 MB
DDRDRAM	64 MB
DIGITAL CAPABILITIES	
Transmission Standards	DVB, MPEG2
DEMODULATION	
COFDM	with 2K/8K FFT mode.
FEC	for all DVB Modes.(Automatically found)
VIDEO	
ALL MPEG-2 MP@ML Video Decoder	
Aspect Ratio	4:3, 16:9 with pan vector
RGB analogue outputs.	BW ≥ 5MHz at 0.5 to 5 MHz sweep signal
CVBS analogue output.	
AUDIO	
MPEG1 Layer 1 and 2	
Sampling frequencies supported	32 kHz, 44.1 kHz or 48 kHz.
Wide dynamic range	16-bit resolution
REMOTE CONTROL	
Operating Distance	10m Max.
Batteries	2x1.5V Micro (R-03/AAA)

TUNERS	
2 xRF In	IEC-type, female (75Ohm)
2 x RF Out (loop through)	IEC-type, male (75Ohm)
HARD DISK	
Hard Disk capacity	80 GB
FRONT PANEL	
Display	VFD
Remote Control Keys	Standby ON/OFF,Record,Play, OK, PR+ / PR-, V+ / V -, Standby Led
AUDIO R / L	
Connector	2 x RCA (R + L)
Output	2 Vrms, 0 dBfs / Z = 10 kohm
DIGITAL AUDIO	
Output	Optical SPDIF
A / V & DATA IN / OUT	
Scart	TV scart, VCR scart
RGB Video Output	TV scart
RGB Video Input	VCR scart
CVBS Video Output	TV scart, VCR scart
CVBS Video Input	VCR scart
Analog Audio Output	TV scart, RCA jack , VCR scart
Analog Audio Input	VCR scart
Digital Audio Output	Optical output
Data Interface	RS232 (max 115200 bps),9Pin

Please note, due to the continual improvement of our products these specifications are subject to change without notification.

TROUBLE SHOOTING GUIDE

Attention!

Please avoid unnecessary risks. Never attempt to repair a defective – or seemingly defective – device on your own. Repairs should only be performed by a specialised repair facility or an equally qualified specialist. Any electrical device is possibly susceptible to errors. However not every error represents a defect. Very often the cause for errors are faulty cables, connector cables/sockets or errors in connecting the device.

PROBLEM	POSSIBLE REASON	WHAT TO DO
The Led indicator does not glow	Mains cable is not connected	Check if the main cable is not plugged into the power socket.
No picture or sound	No signal or weak signal.	Check the Aerial and scart connections. Ensure that there are digital terrestrial broadcast in your area.
The settings you have made in the menus have not been changed.	The digital set-top box was unplugged without first going to standby.	Before unplugging your digital set-top box, make sure it is in standby
The remote control is not working.	<ul style="list-style-type: none"> - The digital set-top box is in Stand by. - Remote control is incorrectly aimed. - Battery exhausted. 	<ul style="list-style-type: none"> - Press the standby key. - Check if anything is obstructing the front panel . - Change the batteries.
Forgotten PIN Number		Reinstall the unit with "First Time Installation". The PIN number will be defaulted to "0000"
Record does not start	No or weak Signal	Check aerial connections and ensure that the unit is being used in a location that where digital terrestrial broadcast can be received.
No PIP video	<p>No or weak Signal.</p> <p>PIP Channel is radio or teletext based.</p>	<p>Check aerial connections and ensure that the unit is being used in a location that where digital terrestrial broadcast can be received.</p> <p>Use PIP+ / PIP- to choose a valid TV channel.</p>

IMPORTANT NOTICE:

DIGITAL SWITCHOVER AND YOUR TV EQUIPMENT

WHAT YOU NEED TO DO TO ENJOY WATCHING TV DURING AND FOLLOWING DIGITAL SWITCHOVER

Starting in 2008* and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

To continue using this digital TV equipment during and following digital switchover, you will need to "reset" your digital TV channels.

Users of this digital TV DTR must reset their channels on at least 2 different occasions, normally 1 month apart when switchover happens. Digital UK, the body leading digital TV switchover, and broadcasters will advise you when to reset your channels on each occasion.

If you do not reset your channels, you risk losing some or all of your TV services during and following switchover.

Please refer to this instruction manual for help with resetting channels. The instructions for resetting the channels are on page 15 of this manual.

Please note that in order to receive the maximum number of available TV services on your equipment you must perform a first time installation and do not just add channels.

For more information about this, please contact our helpline using the above contact details or visit www.digitaluk.co.uk.

* With the exception of Whitehaven in Cumbria and the surrounding area which will switch over in October 2007.

The FREEVIEW service is subject to coverage. An aerial upgrade may be required. Freeview Playback™ and Logo™ © DTV Services Ltd 2002. Freeview is marketed by DTV Services Limited trading as DTVSL, registered number 4435179

ENG

A Note About Recycling

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

When discarding the unit, comply with your local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

