

# SHARP

## DIGITAL TV RECORDER

### MODEL

# TU-TV322H


## OPERATION MANUAL




**Important:** This product can only receive Digital Terrestrial TV signals, subject to coverage an aerial upgrade may be required. Test your postcode followed by your house name or number to 83331\* or go to [www.freeview.co.uk](http://www.freeview.co.uk) (\*Costs no more than a normal text).


1. Read this operational manual carefully.
2. If you still encounter a problem, please call our Help line on 08444 159 159



 Turn on/off sound (on the TV).


 Sets the remote control to DTR mode.


 "Quick" key to the Top Up TV services.


 Displays the TV listings screen.


 Controls the TV sound

 Navigation in menus and programmes (UP/DOWN for channels, LEFT/RIGHT for time).


 Takes you from delayed TV in memory to live TV.


 Rewind and -24Hr in the TV listings.

 Stop recording or playback.


 Current programme information.


 Used to select the corresponding colour option shown on the


 Controls the Audio & Video signals sent to the TV.


 Enter channel numbers or information into menus and "swap" between tuners and hard disk drive.





 Turns the DTR (or TV) on or off.


 Sets the remote control to TV mode.


 Displays the recorded programmes screen.


 Displays the DTR main menu.


 UP / DOWN channel or page (in menus).


 Chooses the highlighted option or confirms your selection. Also activates Quickfind (fast channel selection).

 Navigates back up from menus.


 Fast forward and +24Hr in the TV listings.

 Pause / Play a recording or pause live TV. Top half is Pause Bottom half is Play

 Make an instant recording of a current programme by pressing and holding for 3 seconds.

 Access digital text services.

 Subtitles on or off.

 Enter channel numbers or information into menus.

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# Introduction

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Congratulations on your choice of this state-of-the-art Digital Television Recorder (DTR). We hope you will enjoy all the new features this technology brings to your home for many years. Your DTR is going to revolutionise the way you watch TV.

You can pause live TV, for example while you answer the phone and then resume watching where you left off. You can also record two different channels at the same time. Delayed viewing, fast-forward and rewind functions allow you to play and replay the sports action without having to worry about the rest of the game which is still being recorded. These features could make you lose track of time, but fortunately the LIVE TV button brings you back to the present instantly.

We're sure that you want to get started. On the following pages are a quick start guide to help you set the DTR up in just six easy steps. On page 11 there is a guide on Using Your DTR Remote Control. There are detailed explanations for each step later on in the manual and on page 44 you will find the terms and conditions covering your DTR.

If you need any further information about your DTR, or want to see more information about the programmes currently on Top Up TV, then just visit [topuptv.com](http://topuptv.com)

**i** Note: This product can be upgraded from software updates broadcast over the air to your DTR. Top Up TV reserves the right to transmit software updates that it would consider appropriate in order to improve the functionality of the product, without degrading the quality level.

# Quick Start Guide

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## A Quick Start Guide to setting up your Top Up TV+ Digital TV Recorder



### First things first

Ensure you can receive Digital Terrestrial TV (Freeview) services in your area. If you are not sure, you should ask your retailer to check your postcode for you or try one of the following:

- Text your postcode to 83331 (standard rates apply)
- Visit [www.freeview.co.uk](http://www.freeview.co.uk) or [www.digitaluk.co.uk](http://www.digitaluk.co.uk)
- Call Freeview on 08708 809980



- A Unplug the aerial cable from your VCR (or TV) and plug it into the Aerial In socket of your DTR.
- B Using the SCART lead, connect the TV SCART socket on your DTR to the AV1/EXT1/AUX1 SCART socket at the back of your TV.
- C Connect the mains lead to the mains socket and switch on at the mains. Reconnect the power to all your existing equipment and turn your TV on.


When you plug your DTR into the power supply, a red light and the message PLS WAIT will be displayed. This will be followed by WELCOME TO TOP UP TV+, the HDD symbol will flash for about 45 seconds. You must wait for the HDD symbol to stop flashing and the display to go dim before pressing any buttons.




### Step 3 – Your DTR is ready to scan for channels

Press the DTR button on your remote. The button will momentarily flash. This will confirm that the remote control is working correctly. Now wait for the light on the front of your DTR to turn from red to green.



Your TV should now automatically switch to the DTR input and display the image shown. If this does not happen, using your TV remote, manually select the TV SCART input to which you have connected your DTR. Refer to your TV handbook if required, but it is likely that the TV remote button will be labelled 'AV' or have this symbol 

Once you can see the image on screen displayed here, and have ensured all connections are correct, press  on your remote control.

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## Step 4 – Channel Scan



You will see this screen showing that your DTR is now searching for all available channels.

In the event that your DTR does not find any channels, or has missed some, see the section on what to do if your Installation fails, on page 10.


When your DTR has successfully found all channels, your DTR will search for and install the extended 14 day Programme Guide software. Please note that when you start to use the extended guide after installation, that this may take up to 24 hours to fully populate.

## Step 5 – Parental Control



You will now be prompted to set up the Parental Control PIN for your DTR. For Top Up TV subscribers, this controls who will have access to the extra programmes, which are downloaded automatically to your DTR every night. The Parental Control PIN will not control or restrict access to Freeview programmes (your default PIN is 0000.)

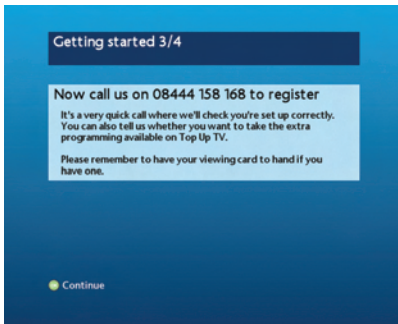
If children have access to your DTR, it is advisable to select the maximum appropriate viewing certification now, in order to restrict access. E.g. by selecting 12, you will restrict access to programmes rated 15 or higher.

Once you have completed this step, press  on your remote. For more parental control options please refer to page 28.



## Step 6 – Top Up TV Anytime set up

With Top Up TV Anytime you'll get up to 600 carefully selected programmes downloaded to your Top Up TV+ DTR every month. That's up to 150 extra programmes available at any one time on top of your normal Freeview channels. You can also upgrade to PictureBox which gives you an additional 30 movies a month or take Setanta Sports, a must-have for sports fans.




Press

OK



Using your DTR remote control, now switch to channel 5 and check you are getting a picture. If you are not getting a picture on channel 5, please refer to the Troubleshooting section for help.

To activate the extra channels available from Top Up TV, please refer to your welcome pack and the included viewing card instructions for full details. Once you have called us to activate your subscription, you will need to leave your DTR on channel 16 (QVC) for around 30 minutes. This will ensure that your DTR receives your subscription activation successfully.

It may take up to 48 hours for your first Top Up TV Anytime programmes to appear in your DTR library, but you will be able to watch your Freeview channels right away. 

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**i** Insert your card into the slot with the chip upwards.

**i** To ensure the best operation of your DTR, we recommend that you leave your DTR in STANDBY whenever it is not in use. Note that turning the power off at the mains will prevent your DTR from receiving Top Up TV programmes.

**If the installation fails, check the points below and try to rescan for channels again.**

- Check that all the connections have been made as shown in the diagram on page 6 and the power is switched on to all of the equipment.
- Check that the batteries in the remote control are in the right way round and press the DTR button. Check that the DTR button flashes when pressed.
- Make sure the TV aerial is connected directly to your DTR (1st in chain).
- Check any signal boosters are Digital TV compatible and switched on.
- Repeat the installation by following the channel scan instructions on page 8 of the main user manual.

If the installation still fails, please refer to the Troubleshooting guide and/or the help pages on the website [topuptv.com](http://topuptv.com)

You may also call Top Up TV on 08444 159 159 for further assistance.

**i** If your viewing card has not been inserted into the DTR or your DTR is OFF for 7 days after receipt, then you may need to call Top Up TV on 08444 158 158 to reactivate the card.

# Basic Functions

## Using your DTR remote control

The next few pages of this manual will help you to get the most out of your DTR. It is worth keeping this manual to hand for a few days whilst you get to know how it works. For reference, a few of the basic functions are shown below. Note they are all described in more detail later on in this manual.

Turning your DTR on

Press the  button.


Changing channels

Press the CH+ or CH- buttons.


Selecting a channel by number

Press the appropriate digits into the number keypad.


Pause Live TV or recorded programmes

Press the top half of the  button.


Fast Forward

Press the  button. Press it again to go forward faster.

Rewind

Press the  button. Press it again to rewind faster.


To view the Quick TV Guide

Select the UP or DOWN arrows, use all arrows to navigate. 


Using the Programme Guide

Press the GUIDE  button. Navigate using the arrow buttons.



Look at a future day's programmes

Press the GREEN  button whilst in the GUIDE.

Setting a Reminder

Press the YELLOW  button whilst that programme is highlighted in the GUIDE.


Recording a programme from the Guide

Press the  button whilst on a highlighted programme in the GUIDE. Then press the  button to confirm in your Planned Recordings list.


Viewing Top Up TV programmes

Press the  button whilst in the GUIDE.


Search for a programme by name

Press the RED  button whilst in the GUIDE. Use the numbered buttons to enter text.


Using your Programme Library

Your Library is where all of your recorded and Top Up TV programmes are stored. Press LIBRARY  to access.

Instant Record

Press the  button and hold for three seconds, whilst watching the programme.

Watch whilst still recording

Select a programme to watch from the Planned Recordings screen, even if it hasn't finished yet. To stop a recording press and hold  for three seconds.

Customise Top Up TV Anytime

Keep your Top Up TV Channel selections up to date and ensure you're making the most of the disk space available by selecting option 4 from the main menu (See page24). This will bring up the Setup menu. Select Option 1 in the Set up Menu to scan for new channels.


# Basic Operation


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## Turning On and Off



To turn on your DTR, press the  button. The red standby indicator light will go green.

To turn off your DTR, press the  button. The standby indicator light will turn red again. The message 'OAD' will indicate the box is updating and that you should wait before pressing any further buttons.

The DTR must be on or left in standby if you want to keep the Programme Guide and Top Up TV programmes updated. 

## Changing channels



To change channel press the CH+ or CH- buttons. This will move through the channel list one at a time. Note that the channel numbers are not continuous. These are set by the broadcaster and cannot be changed.

If you wish to search for your channel by name, use Quickfind.

- 1 Press the OK button.
- 2 Use the arrow buttons to move the highlighter around the programme names, until the channel you wish to watch is highlighted. (Only some channels are shown inside the box, keep moving left or right to find the rest.)
- 3 Press the OK button again to change the channel.



If you know the channel number you are looking for, enter this using the number buttons. With digital TV there can be up to 3 digits in the number.

A banner with information about the programme currently showing will appear briefly each time the channel changes. For more details on getting programme information, see page 13.

## Teletext and interactive services

If your chosen channel has digital text features press the TEXT or coloured buttons to access them. To return to normal viewing press TEXT again. Some services offer interactive features, details of these and how to use them will appear on screen as they occur.

# Using the Quick TV Guide

Monday 10 July 14:47

ITV1

Now	14:00	Our New Life In Everwood
Next	15:00	Pocoyo

Dr Abbott suspects that Linda and Andy are getting along too well, so he decides to set up his sister with more appropriate

Shows the current date and time

Shows the channel name

Now Shows the programme name and start time

Next Shows the programme name and start time

Shows short details of the programme (synopsis)

When you are watching TV you can find out what's on other channels without interrupting your viewing using the Quick TV Guide. This is the small banner that appears at the bottom of the screen during channel changes or when you press an arrow button.




To change the view to show what's on NOW or NEXT, use the UP / DOWN arrows.

To see what's on another channel use the LEFT or RIGHT arrows.

When you see a programme you want to watch, press OK.

# Using the Menus



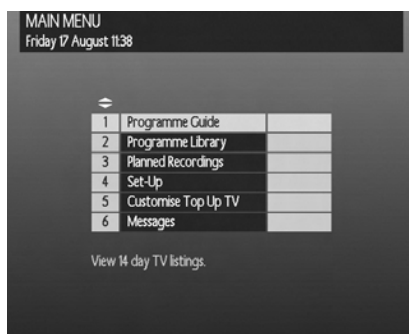
Please refer to the inside front cover for a full colour image of your remote control and its primary functions. 

To use these menus, you must first press the MENU button which will then display the main menu.

Now choose the item (called a sub menu) that you want to look at.

You do this by using the UP arrow ( $\Delta$ ), to move the yellow box up the list and the DOWN arrow ( $\nabla$ ) to move it down the list.

Once you have highlighted your choice with the yellow box, press the OK button to move to the




If the DTR states that a PIN number is required (Personal Identification Number), enter this now.

The default number is 0000. You can find how to change this on page 28.

As you learn to use the DTR you will find that the number buttons can take you directly to sub menus without the need for using the arrow buttons. e.g. Use 4 for the fourth item (Set-up), 1 for the first item (Programme Guide), etc.



In each menu, look at the bottom TV lines of text for more information on which buttons to press. This could be arrow buttons ( $\triangleleft$  or  $\triangleright$ ) or the coloured buttons.

Finally, when you have finished making adjustments, use the BACK button to return to the TV picture. You may need to press it more than once, depending on the menu item. 

# Using the Programme Guide

Your DTR has access to two programme guides. Initially your DTR will provide the standard Freeview 7 day Programme Guide, but as soon as your DTR has acquired the Top Up TV on-screen programming guide, you will have access to 14 day listings. The Programme Guide screen gives you a fast way of planning your viewing and recording. To access this guide, press the GUIDE button.



The guide shows the next three periods of 30 minutes, for each channel. While in the Programme Guide, you can navigate around using the arrow buttons. UP / DOWN arrows will move between channels, while the LEFT and RIGHT arrows move in time. The Guide is split into three sections of 30 minutes each. The information contained in a time segment usually shows the name of the programme. This is only the case when the programme takes up the whole of that 30 minute time slot. As programmes can be longer or shorter than 30 minutes, the Programme Guide has been constructed to inform you of this.

If a programme is longer than 30 minutes the next time slot shows three dots to indicate that the programme runs in to the next slot. If a programme is shorter than 30 minutes the programme name is followed by an arrow to indicate that more than one programme exists in that slot.



If a programme does not start exactly on the time boundary, it will have two dots in front of the programme name to indicate that it starts later than the time shown in the column heading.

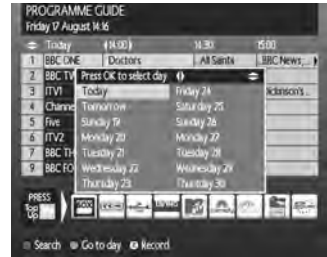
If you leave the highlighter box over a programme for more than five seconds, a box will appear showing a synopsis of the programme. It also shows the start and end times for that programme in the top right-hand corner.

Across the bottom of the screen are a number of functions that can be activated by pressing the coloured buttons on your remote control.


## Go to day

Pressing the GREEN button will bring up an overlay box (pop-up). This is the GO TO DAY menu.

Using the UP and DOWN arrows you will move the highlighter to a day in the future. Pressing OK will take you back to the Programme Guide, but now the guide is showing programmes on the day you selected. From here you can set up recordings or reminders.

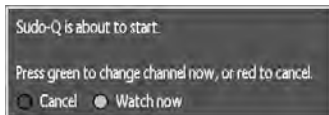


## Set reminder



Pressing the YELLOW button will add a reminder to the currently highlighted programme. You can see if you have set a reminder as the reminder icon  will appear next to the programme name. If you wish to cancel the reminder, press the YELLOW button again.

When that event arrives, you will be reminded by a pop-up which will appear on-screen.

You can accept the reminder by pressing the GREEN button to watch the programme or cancel it with the RED button.

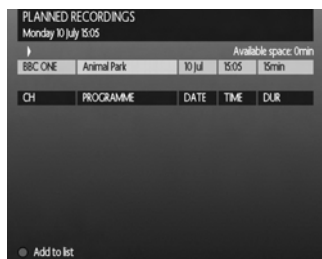


## Record

Pressing the  button will take you to the PLANNED RECORDINGS screen. Press the  button again to add the recording to the planned recordings list.

When you go back to the TV Guide, you will see  next to the planned recording.

For more information on planned recordings, please refer to 'How to make Recordings' on page 21.





# Top Up TV Anytime

In addition to the standard Freeview channels, your DTR can also give you access to a wide range of programmes on Top Up TV Anytime.

By subscribing to Top Up TV Anytime for a small monthly fee, your DTR will automatically record and download programmes from channels such as Discovery, UKTV Gold, Warner TV, the Disney Channel, National Geographic channel and more, for you to watch whenever it suits you.



The extra channels are shown across the bottom of the Programme Guide screen.

Pressing the Top Up TV button on your remote enables you to view the list of programmes available to watch right now. Then you simply use the LEFT and RIGHT arrow buttons to scroll through and press OK on anything you want to watch.

To subscribe to the extra programming and choice that Top Up TV brings call now on **08444 158 158**.

## Programme Search

The powerful search facility allows for searching the entire Programme Guide and Programme Library.

**i** Note: To select the search facility use the RED button in the Guide, to record programmes from the Guide use the RECORD button.

Use the NUMBERED buttons on your remote control to enter text. Enter either as much of the channel name or the programme title as you know and a list of programmes matching your search request will appear allowing you to watch or record the programmes. For example, entering 'bbc' as a channel name will return results for all channels starting with the text 'bbc' (BBC ONE, BBC TWO, BBC THREE, etc.) whereas entering 'bbc o' will return results for BBC ONE.



**i** Note: Buttons 0 and 1 provide punctuation such as spaces and full-stops. If you enter the wrong character, use the LEFT and RIGHT arrows to move the cursor. Use the RED button to delete a character and GREEN to insert.



To move between the search criterias use the REWIND and FAST-FORWARD buttons. Use the COLOUR buttons to delete and insert as indicated on screen. Date and time options are also selected using the COLOUR buttons. When selecting the time, the NUMBER buttons can be used to enter the time. The search results can also be refreshed by pressing the OK button.

To select a programme in the search results, press DOWN and the cursor will move into the search results list. The COLOUR buttons can then be used to either watch or record any of the programmes. The INFO button can be used to display a synopsis of the programme. The PG+ and PG- buttons can be used to page through the search results. Use the COLOUR buttons to return to the search criteria in order to refine your search.



# Using your Programme Library

Your Programme LIBRARY is where all of your recorded and Top Up TV Anytime programmes are stored. To access it, press the LIBRARY button or Option 2 from the Main Menu.

Your Programme Library will be empty at first, but as you start to record programmes and Top Up TV Anytime programmes are downloaded to your DTR, it will fill up. Note that it will take 7 days from set up for your Top Up TV Anytime programmes to be fully downloaded.

Your Programme Library is partitioned into two sections. The top section shows your recorded programmes, and any Top Up TV Anytime programmes that you have saved. You can store recordings here and delete them once you've watched them. To delete a recording, use the arrow keys to highlight the recording and press the BLUE button. Note that to manage the space available in both sections, you need to customise your Top Up TV Anytime viewing – see page 26 for full details.

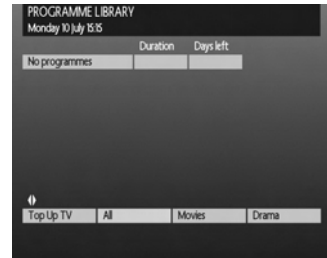
The bottom section is where your Top Up TV Anytime programmes are stored. You will notice that the screen appears slightly different. There are two differences. The first and most important is the Days Left column, and the second is the red SAVE button.

## Days Left

This shows how many days the programme will remain stored on your DTR before it is automatically deleted and replaced with new programmes. You may watch the programme at anytime, but if the Days Left number reaches zero, you only have a few hours left before the programme is overwritten. If you would like to watch the programme, but do not have time within the time remaining, you can move the programme to the top section by pressing the RED button. The programme will now appear in the top sections of the Programme Library and the Days Left will show Saved. For some programmes, rights restrictions means we are unfortunately not able to offer the Save feature.

There are a number of functions that are common to both storage areas: If you pause the highlighter over a programme, that programme will automatically start playing in the small preview window on the right-hand side of the screen. If you wish to watch the programme, press the OK button. If you had previously not finished watching a programme, press the GREEN button to resume the playback from the last watched point.

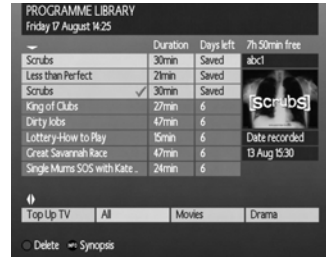
You can always access the Top Up TV programmes by pressing the Top Up TV button.



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## Folders

Programmes on your DTR are automatically placed in folders to help organise your library and make them easy to find later. Each recording can reside in more than one folder, the ALL category and typically one other genre folder, for example, Movies, Sport, Kids etc. To move between folders use the LEFT and RIGHT arrow buttons. To highlight a programme use the UP and DOWN buttons. To view the programme, press the OK button.



## Synopsis

With the highlighter over a recording, pressing the INFO button will pop-up a small window with a brief summary of the contents of that given programme. Press INFO again to exit synopsis.

## Delete

With the highlighter over a recording, press the BLUE button. You will see a confirmation pop-up to confirm that you wish to delete the programme or exit without deleting.

## Icons

There are two icons used to assist you in managing your Programme Library.

The ✓ at the end of the programme name field is used to indicate that a programme has been watched.

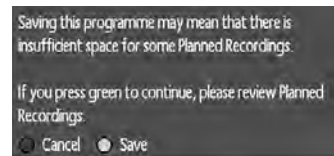
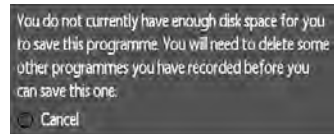
The ↻ at the end of the programme name field is used to indicate that a programme is currently 'playing'.

## Pop-ups

Finally, you need to be aware of a few pop-ups that may appear to help you with your selections.

Depending upon the way you have set-up your DTR, or if you have not set-up enough storage space on your DTR or you have simply run out of space, your DTR will prompt you that there is not enough space to store your selection. If this happens, you will need to delete some of your recordings if you wish to save additional programmes.

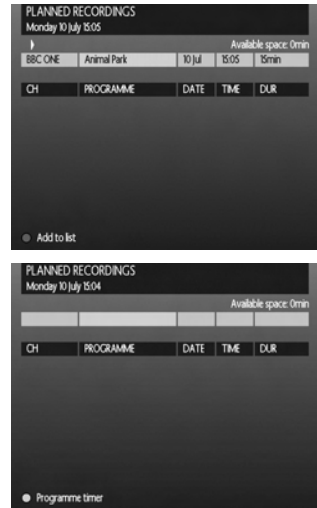
Also, a similar pop-up may appear if you are saving a programme that will limit the storage space for any future recording. In this instance you may save this programme, but you should also go to the Planned Recordings menu to make sure you have enough space and if necessary delete old recordings.



# How to make Recordings

Your DTR will allow you to customise the way you record a programme.

In this section, we will show you just what options are available to you. Typically you will have pressed the **R** button in the Programme Guide which will have automatically taken you to this screen, but you may also wish to set a recording manually. If you have arrived at this screen via the Programme Guide, simply press the **R** button to accept the default settings and your recording will be added to the list and completed without further interaction. If you wish to set-up a manual recording via the Planned Recordings menu, you will typically be presented with a virtually blank screen as shown. Press the GREEN button to continue and you will be prompted to enter the channel, date, start and stop times. Use the LEFT and RIGHT arrow buttons to amend the detail of the selections, and the UP and DOWN arrow buttons to move between the settings. Finally press the **R** button to add the event to your Planned Recordings list.



## Instant record

If while watching a programme you decide you wish to record it, press the **R** button on your remote control and hold for 3 seconds. Your DTR will automatically record the programme to the end of the scheduled time and add any of that programme that exists in your review buffer.

## Editing an event

There may be an occasion where you wish to adjust the recording (event) that you are setting. This DTR allows you to change both the start time (TIME) and the duration of a recording. Entering a recording from the Programme Guide or manually from the Planned Recordings menu, the highlighter will be positioned over the PROGRAMME field. Press the RIGHT arrow button to move the highlighter over the TIME field. Use the GREEN or YELLOW buttons to increase or decrease the start time. You can also move the highlighter to the DURATION field again with the RIGHT arrow and use the GREEN or YELLOW buttons to increase or decrease the recording duration. Once satisfied with your adjustments, press the **R** button to add this recording to the list.

## Why edit an event?

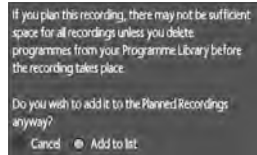
There may be occasions where multiple recordings overlap and your DTR will warn you that two recordings collide. You may know that the programme you wish to record has moved due to an over-run of a previous programme. Or simply, you know that the part of the programme you are interested in starts later than the actual programme start time; for example, a football match. Editing the timing will allow you to record programmes that would otherwise conflict with each other and save space on your DTR for future recordings.

**i** Your DTR is also capable of automatically adding time to a recording to guard against programme over-run. Please refer to page 27 for more information on Guard Times.

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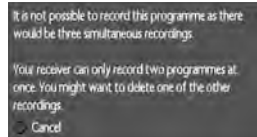
## Space for recordings

When you add a recording to the Planned Recordings, your DTR will check to see if there is enough space to complete all the scheduled recordings. If there is a risk that there is not enough space, you will see this pop-up. You have the option to cancel the recording or continue with the event. If you continue with the recording, you should go to the Programme Library menu and try to clear space by deleting programmes that you have already watched and no longer wish to keep. If you do not make space, you may lose the end of your recording or fail to be able to record further programmes.




## Simultaneous recordings

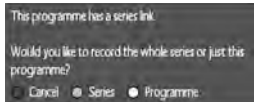
Your DTR has two tuners which means that it is capable of recording two different programmes at the same time. In the event that you try to record more than two programmes at the same time, your DTR will alert you to this overlap with the pop-up shown.



**i** Make a note of this overlap and go back to the Planned Recordings main menu. Find the programmes that overlap and look to see if you can manually change the start times or durations of the overlapping events to resolve the conflict. This will still enable you to record the programmes you wish and not miss anything of significance.

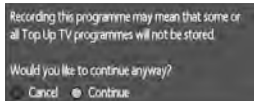
## Series link

Some programmes are broadcast with special tags that indicate that the programme is part of a series. If while setting a recording your DTR detects this tag, it will advise you with this pop-up. You now have three options; cancel the recording (RED button), record all programmes with that 'Series link tag' (GREEN button) or just that specific programme and remove the Series link (YELLOW) button. When you go back to the Programme Guide, you will see that a series link icon has been added to the programme name. It looks like this 



## Recording while Top Up TV Anytime programmes are updating

If you have subscribed to Top Up TV Anytime, whilst automatic Top Up TV Anytime updates are being recorded (usually at night), your DTR will be using both tuners to record programmes into your Top Up TV Library. If you also want to record another programme at the same time, you may see this screen. Your DTR will tell you which Top Up TV Anytime programmes will be affected, allowing you to choose which recording is more important to you and which recording(s) should not be made.



# Additional DTR Functions

## Tuner swap

Your DTR has two tuners which means it can receive two different channels at the same time. You can switch between these two channels by pressing 0 on your remote control. If that channel is paused, it will automatically switch to play to allow you to watch the programme. Furthermore, if you are watching a recorded programme, your DTR will pause that programme and switch to the programme currently being received by one of the tuners. Pressing 0 again will switch to the other tuner and pressing 0 again will return you to your recorded programme and resume playback.

## Watch whilst recording

This is the ability to view a programme that is currently being recorded as part of a scheduled record or an instant record process. There are two ways to view a programme while it is being recorded. From Planned Recordings highlight the programme you wish to watch and press the RED button on your remote control. This will start the programme from the beginning. You can also change channels to the one that is recording your programme and use trick modes such as REWIND to move back through the recording to your desired point.



## Pause, rewind & fast forward

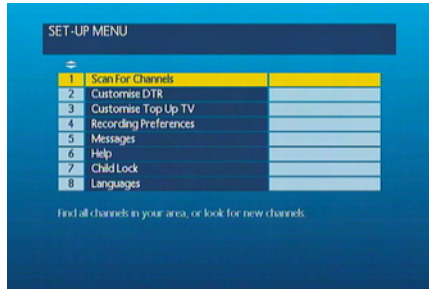
These are functions that enable you to move forward or rewind through a recording. There are nine incremental speeds for both forward and rewind, these are  $x^{1/4}$ ,  $x^{1/2}$ ,  $x1$ ,  $x2$ ,  $x4$ ,  $x8$ ,  $x16$ ,  $x32$  &  $x64$ .

- i** Note: That quarter and half speed modes are only accessed from Pause mode. To enter Pause mode, press the PAUSE button on your remote control.
- i** Note: USB port on the product shall not be functional until this feature is available with software update over air download.



# Setting Up

From the MAIN MENU, press 4 or select Set-Up.



Use the UP and DOWN buttons to highlight the sub-menu you wish to enter and press the OK button, or press the number button that is associated with the sub-menu.

If you have trouble scanning for channels or with any aspect of the installation, refer to page 10 for more information or check the Troubleshooting guide in this manual.

## Scan for Channels

You will have performed this option automatically as part of the installation process, but if for any reason you wish to re-scan for new channels (if you have moved or have a new aerial for example), make sure that all the connections to your DTR are connected correctly. Select Option 1 in the Set up Menu to scan for new channels. Press the GREEN button to start the automatic search for available channels. To exit, press the BACK button.

Once the scan has started you can cancel it by pressing the RED button.



- i** You can monitor the progress of the search as your DTR first searches for digital broadcast frequencies and then for specific programmes on those frequencies. Finally your DTR will attempt to acquire the Top Up TV Anytime service.

When the scan is complete, the text at the bottom of the screen will say 'Scan complete' and the GREEN button will re-appear to enable you to re-scan if required. To exit this menu option, press the BACK button.

- i** Throughout the set-up menus, we will list the available settings within an option. Please note that the DTR factory default will be UNDERLINED. If at anytime you are not sure what setting to make, refer to the relevant page and look for the setting that is underlined.



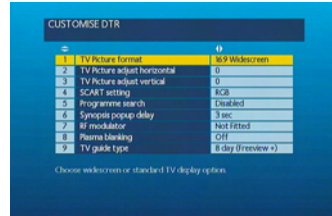
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## Customise your DTR

Use the UP and DOWN arrow buttons to select an option and use the LEFT and RIGHT arrow buttons to cycle around the available settings.

### TV Picture format

Use the LEFT and RIGHT arrow buttons to choose from 4:3 Letterbox (black bars top and bottom), 4:3 Centre Cut-Out (full screen, but lost picture on left and right), 4:3 Full Frame (if your 4:3 TV supports 16:9 switching, check your TV manual) or 16:9 Widescreen (for widescreen TVs).



### TV Picture adjust horizontal and TV Picture adjust vertical

Select these options to move the picture generated by the DTR either horizontally or vertically so it sits centrally on your television screen.

### TV SCART setting

Use the LEFT and RIGHT arrow buttons to choose from RGB (best picture), S-Video (for specific TVs) or CVBS for all other types. See your TV manual for the best choice, it usually depends on which socket you connect to.

### Programme search

This option turns on or off the 'Search' facility (accessed using the RED key in the Guide) that provides a search facility across the Programme Guide and recorded programmes. When enabled the RED key is used to access the Search screen and the WHITE (R) key is used to record programmes within the Guide. If disabled the RED key is also used to record programmes within the guide.

### Synopsis pop-up delay

This option allows you to either turn off the synopsis window that pops-up over the Guide or video when a programme is selected, or to change the period that you wait for before it appears.


### Plasma blanking

This option allows you to specify a time after which the display automatically dims. This is important as static images can damage certain screen types.

For both Radio and Plasma blanking the available settings are: **OFF**, 3, 5, 10, 20 (minutes)

### TV Guide Type

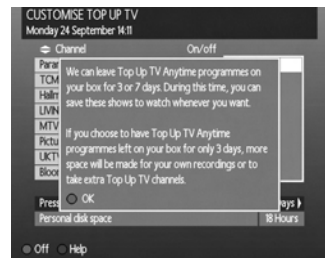
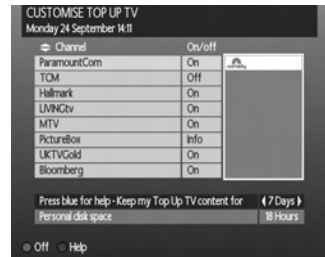
Select whether your box should use the Freeview + guide format (8 day) or Top Up TV guide format (14 day) TV guide.

 It is strongly recommended that the main TV is connected using the SCART lead as this will provide the best possible pictures. These instructions assume you are connected to the main TV with a SCART lead as shown on page 6.

## Customising Top Up TV Anytime

One of the great things about Top Up TV Anytime is that you don't have to download all the programmes available. You can choose to record and download only those programmes from channels you watch. So for example, if you don't have kids, you can save space on your hard drive by de-selecting the kids channels, giving you more space to download those you do want to watch. Customising your channels is easy and should be done to ensure you maximise the amount of space you have available for your own recordings. This menu presents a list of available Top Up TV Anytime channels. Use the LEFT and RIGHT arrow buttons to move between columns. Use the UP and DOWN arrows to move the highlighter over a channel for activation. Press the RED button to activate the channel.

**i** Note the two times on the bottom of the screen. The Top Up TV (TUTV) hours per week will change as you activate or de-activate channels. The available space left for personal recordings on your DTR's hard disk drive (storage space) is shown on the far right.



In some cases there will be insufficient free storage space in the Personal Disk Space area to re-assign for Top Up TV Anytime use. In this case, a pop-up will be displayed as shown to enable you to remove content from the Record Library. Use the UP and DOWN arrows to select a programme and then delete it by pressing the RED button. Once you have created enough space, you can activate the new channel by pressing the GREEN button. To exit this menu press the YELLOW button.

**i** You may attempt to activate a channel for which you do not have the right level of subscription. If this occurs, you will be taken to the Subscription screen. Follow the steps on screen to change your subscription.

### Warnings

There are some warnings that may pop-up as a result of some of your selections / actions.

The first of these may be if you de-activate a Top Up TV Anytime channel. The warning will inform you that if you de-activate this channel, you will no longer receive any of that channel's programmes and will delete any recordings made from that channel.

The second warning you may see is in activating a new channel, you may not have enough space on your disk drive for planned recordings. The warning will advise you to review your Planned Recordings as soon as possible. Please refer to page 20 on how to make space by deleting unwanted recordings.

## Recording Preferences

There are two options available to change, the guard time and the rewind buffer size. Use the UP and DOWN arrow buttons to move between the two options and the LEFT and RIGHT arrows to scroll through the available values for that option.



### Recording guard time

A guard time is a small amount of time added to the start and end of a recording to help protect against programmes starting slightly ahead of schedule or more typically over-running their scheduled finishing time. There is obviously a small penalty for this feature which is that you will use up more space for each recording with a guard time set. The available settings are OFF, 1, 3 or 5 minutes. As you can see the default setting is OFF to maximise the available disk space for recordings.

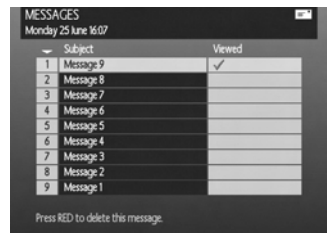
### Pause live TV

Your DTR automatically records and buffers the channel you are currently watching. The size of this record buffer is set to 30 minutes. This means that you can pause and rewind the channel you are watching back by 30 minutes, or by the amount of time you have set as the Pause live TV buffer size. As with the guard times, this obviously takes up space on your hard disk drive for recording other programmes so if you do not use this feature you can turn it off to increase the available space for recordings. The available settings are OFF, 15, 30, 45 or 60 minutes.

**i** If while watching a programme you decide to record it, your DTR will use as much of the buffer as is available to add to your recording in an attempt to record the whole of the programme from the start.

## Messages

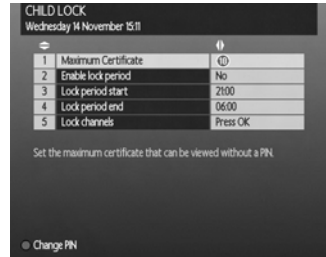
Occasionally, events may occur that your DTR stores for your information. For example, your DTR is capable of having its software upgraded automatically via the aerial. If you have any messages waiting to be read, a small envelope icon will appear as shown. To view any messages, select Messages from the Main Menu or Set-Up menu. Once you have read your messages, you may delete them by pressing the RED button.



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## Child Lock

This menu option enables you to set-up Parental Control levels and to determine the access you and your family have to programmes. As soon as you select this option, you will be prompted to enter your Personal Identification Number (PIN). The default number for this is 0000. It is highly recommended that you change this number as soon as possible. Once you have entered a valid PIN you are given the option to change the PIN by pressing the RED button and following the simple steps on-screen.



## Maximum Certificate

This sets the maximum certificate value allowed on any viewed content (live or recorded). If at anytime a user tries to view programmes with a certificate higher than the maximum certificate allowed, the DTR will blank the screen, mute the audio and pop-up the PIN entry window. Unless a valid PIN is entered, the programme cannot be viewed. The available settings are; U, PG, 12, 15, G or 18. Note that the default is 18 which means that there is no automatic block of any content from being viewed. You should lower this to a level suitable for the people with access to your DTR.

**i** Note that setting a certificate does not limit the programmes that can be recorded, only what can be viewed. This allows viewing decisions to be made when the viewer is present. This may not be foolproof – we rely on broadcasters to rate their programmes appropriately.

## Lock Period Start & Lock Period End

This allows the DTR to be locked down during the START and END times. Use the LEFT and RIGHT arrow buttons to amend the time in 15 minute steps. In both cases, the default value is OFF.

## Lock

Once you have set lock periods, you will have to activate them by setting Lock on. Likewise, you can also turn lock periods off with this option.



## Channel Lock

This menu allows you to individually lock selected channels. Each time a locked channel is selected to be watched you will be required to enter your PIN.

## Languages

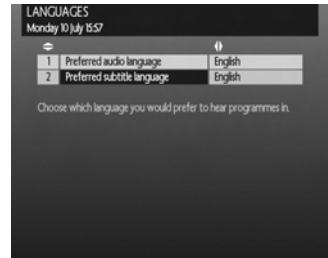
### Preferred audio language

This option sets the Preferred Audio Language output. In a multi-language broadcast, your DTR will attempt to acquire your preferred language. If your preferred language is not available, your DTR will switch to the default language.

### Preferred subtitle language

This has the same action as Preferred Language, but for Subtitles in place of the audio output itself.

To select an option, use the UP or DOWN arrow buttons. To scroll around the possible languages, use the LEFT and RIGHT arrow buttons. The default Language is English and the available options are Welsh and Gaelic.



## Help

This is a high level information screen that will tell you basic information about your DTR. If you require further assistance please call the telephone number shown on-screen in the Help menu which is option 6 in the Set-Up menu.

There is also an option to press the RED button for tuning information. This screen shows the current status of the two tuners, what channel number they are currently set to and the Strength & Quality of the signals being received. You can also change the channel a given tuner is set to with the coloured buttons; RED & GREEN for Tuner 1 or YELLOW & BLUE for Tuner 2.

**i** Changing the channels that the tuners are set to may result in you losing scheduled recordings. Please use this screen with care or wait to be advised on how to use this screen by one of our Customer Care Advisers.



# Troubleshooting

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## Reception problems

When you purchased your DTR, your dealer should have checked your postcode to ensure that you can receive digital terrestrial TV. If you wish to check this yourself, please look on the internet websites:- [www.freeview.co.uk](http://www.freeview.co.uk) or [www.digitaluk.co.uk](http://www.digitaluk.co.uk)

Once you have established that your area should be able to receive digital terrestrial TV, there are a few reasons why you may be experiencing problems.

- Your current aerial and cabling may not be able to receive all the digital channels due to its age and condition. Now is the time to renew them. We recommend the use of CAI "Benchmarked" aerials. Look for the logo. Always use good quality, double screened aerial cable. e.g. CT100 coaxial cable.
- In your location the digital channels may be transmitted on different frequencies to your existing analogue signals and you may need a different type of aerial to receive them. Check the 'group' of your aerial, you may need a 'wideband' one.
- The new digital channels may be transmitted from a new transmitter and if this is the case the aerial would have to be re-aligned. Alternatively, add a second aerial to your system.
- If you need to use a mast-head amplifier, make sure that it is a digitally compatible one and that it is as close to the aerial as possible.
- In some blocks of flats, filters may be in use that will interfere with digital signals. Consult with your landlord if you have difficulties.
- Indoor or window mounted aerials are not recommended, except in areas where the signal is extremely strong.
- Your aerial could be too high. Try adjusting the height of the aerial to avoid picking up unwanted signals from other transmitters.
- If you live near a road, the passing traffic may cause problems. Try pointing the aerial at an upward angle over the road, this helps reduce engine interference picked up by the aerial.
- If you get periodic picture losses, this could be due to electrical interference picked up in your house. This could be from a central heating thermostat, a fridge/freezer, or any other item with a motor. Try switching these appliances off temporarily to establish what is causing the problem. Then replace the problem item.
- If your aerial comes into your room via an aerial connection point (socket), replace it with a good quality shielded one. This will help prevent electrical noise entering your aerial.





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## Tuner conflict resolution

Your receiver is recording two channels and cannot show a third.

To change channel you must first cancel a recording.

Cancel

In some cases there may not be enough tuners for all the functions your DTR is trying to perform, for example if two recordings are taking place and you try to change channels, you will see this pop-up menu. If you really wish to change channels, go to the Planned Recordings menu and cancel the recording. Pressing the RED button will take you to the Planned Recordings menu.

## Top Up TV Anytime conflict resolution

Your recorder needs to store your Top Up TV programmes at this time. If you view other channels at this time you will not be able to view stored Top Up TV programmes.

Press Red to allow the store, green to override it. The recorder will automatically cancel in 26 seconds.

Cancel  Override

Watching live TV may conflict with the requirement to record Top Up TV Anytime programmes. This may occur if you are watching a programme when the Top Up TV Anytime programmes start, you switch on your DTR while Top Up TV Anytime programmes are being recorded or you are watching a Top Up TV Anytime programme but then try to change channels.

In the event of a conflict, you will see this pop-up. If you press the RED button, you will continue to record the Top Up TV Anytime programmes, however, if you press the GREEN button the Top Up TV Anytime recordings will be abandoned and your DTR will be considered to be in override mode.

**i** Your DTR will remain in override mode for one hour or until it is placed in standby.

Your recorder needs to save guide listings and other Top Up TV information.

If you wish to complete this action some listings may not be updated and some Top Up TV programmes not received.

Press Red to allow the save, or green to override it. The recorder will automatically cancel in 27 seconds.

Cancel  Override

In the same way, if your DTR is trying to collect TV listings or Top Up TV Anytime information, your DTR will pop-up this warning. If you press the RED button, you will continue to collect the required information, however, if you press the GREEN button the task will be abandoned.

**i** By overriding this task, your DTR may fail to update the TV listings and as a consequence, may fail to record Top Up TV Anytime programmes.

## Loss of signal

If your DTR can not detect a signal, it will present this icon in the top centre of your TV screen. Check all connections or refer to Reception Problems on page 30.

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## If your DTR fails to respond

In very exceptional circumstances, your DTR may not respond as expected when switching it on. If this does happen, it is most likely to have been caused by corruption of programmes stored on your disk. This can occasionally cause the DTR to remain in standby mode or fail to respond to the remote control while not displaying any picture. However, normal DTR operation can usually be restored, by performing a reset as noted below.



### WARNING

Resetting your DTR can cause all saved programmes to be lost. These steps should only be taken after carefully checking all DTR connections and ensuring you have working batteries in your DTR remote control.


Check the display on the front panel of your DTR.

#### Scenario 1 – No display

- Check the mains lead is properly inserted to the back panel.
- Check the wall socket works by plugging in another appliance.
- Check the fuse in the plug. Only replace with a 5A fuse complying with BS1362. Ask an electrician for help if you are not sure what to check.


#### Scenario 2 – Solid red LED and no display

This means the DTR has encountered an error but it can usually be restored. The following sequence will restore the settings of your DTR to the factory default and will retain your saved programmes.

- Unplug the mains power or switch off your DTR at the wall socket.
- Wait 5 seconds.
- Restore the power while pressing and holding the front panel  button for 5 seconds. PLS WAIT and then REVERT will be displayed.
- Wait 45 seconds for the DTR to complete the reset procedure.
- Select the DTR input on your TV and check for picture.

#### Scenario 3 – Solid red LED and PLS WAIT continuously displayed

This means the DTR has encountered an error and cannot be easily restored. The following sequence will restore the settings for your DTR to the factory default and also delete all saved programmes from the internal storage.

- Unplug the mains power or switch off your DTR at the wall socket.
- Wait 5 seconds.
- Restore the power and wait until the message 'PLS WAIT' disappears from the display then press the front panel  button. Wait until 'FORMAT' message is displayed and then release the button.
- Wait 45 seconds for the DTR to complete the reset procedure.
- Select the DTR input on your TV and check for picture.

# Accessories

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User Manual  
Quick Guide



Remote control  
TV set-up  
codes



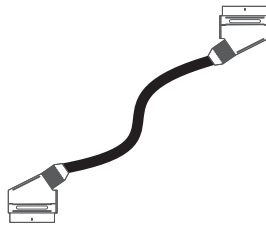
Mains  
lead



2 x AA  
Batteries



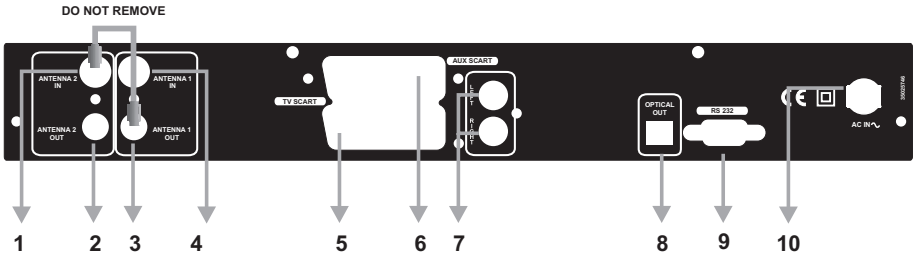
Remote  
Control



SCART Lead

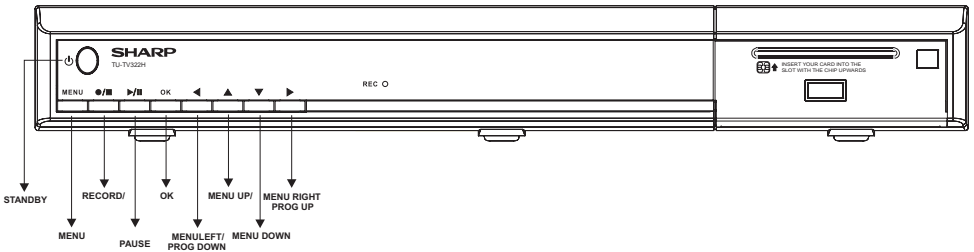
# Product Details

## Rear panel connections



- |                              |                                                    |
|------------------------------|----------------------------------------------------|
| 1. AERIAL 2 IN               | : Loop through                                     |
| 2. AERIAL 2 OUT              | : To watch analogue channels on the TV             |
| 3. AERIAL 1 OUT              | : Loop through                                     |
| 4. AERIAL 1 IN               | : Aerial input                                     |
| 5. TV SCART                  | : TV SCART connection                              |
| 6. AUX SCART                 | : Output for other equipment such as DVD, VCR etc. |
| 7. ANALOGUE AUDIO LEFT/RIGHT | : Analogue audio output                            |
| 8. OPTICAL AUDIO             | : Optical digital audio output                     |
| 9. RS232                     | : For service use only                             |
| 10. POWER SUPPLY             | : 220-240V AC, 50Hz                                |

## Front panel indicators and buttons



### Front Panel Display

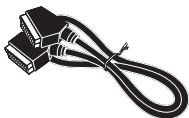
- Power Status – GREEN On
- Power Status – RED Standby
- Remote Control Activity – RED Key Symbol
- Software Upgrade – OAD displayed
- Recording – RED

### Front Panel Buttons

- ⏻ – On/Standby button

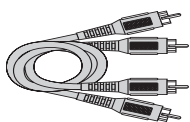
# Further Connections

The scart lead allows rapid connection to your TV, in order to get you going as quickly and easily as possible. If you should wish to adopt the more advanced connections please purchase additional leads as explained below.



## Archiving off the DTR onto a VCR or other recorder

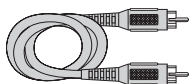
Add a second scart lead to link the VCR SCART socket on your DTR to the AV1/EXT1/AUX1 socket of your VCR. This connection will allow you to archive to a permanent media. If your VCR supports auto-start recording, then the DTR will control the VCR automatically.



## Connection to a hi-fi system or home cinema unit

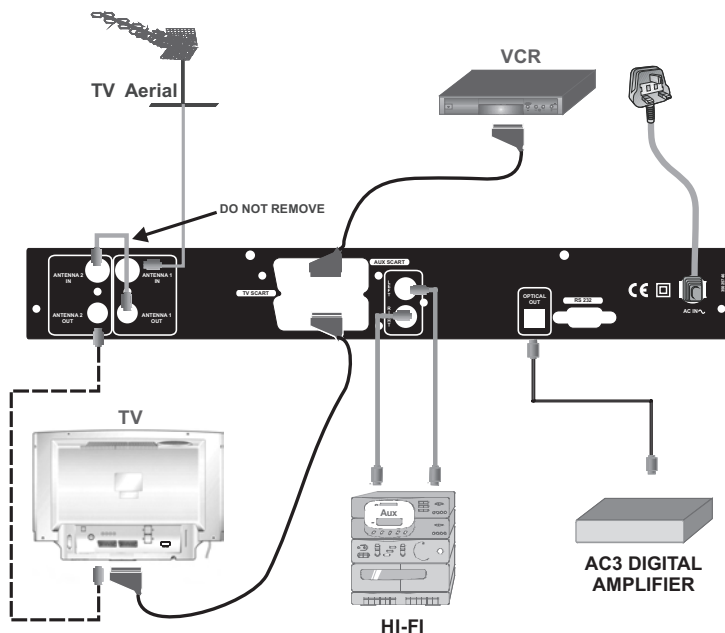
Use a pair of stereo coax phono leads to connect the L/R AUDIO OUT socket on your DTR to the L/R AUDIO IN of your hi-fi or home cinema unit, giving you higher quality sound when you use your DTR.

NOTE: Audio sockets are generally identified by colour. White for Left and Red for Right.



## Coaxial connection to an audio visual amplifier

To get even better sound from your DTR, use a digital audio lead to connect from the OPTICAL OUT socket on your DTR to the DIGITAL AUDIO IN on your AV amplifier. The current broadcasts only output stereo



# Remote Control

## Inserting the batteries



Insert the batteries into the handset as shown. Point the remote control at the DTR and press the DTR button. The DTR button will flash once to confirm that the remote control is working correctly.



## Important information regarding the batteries

Do not mix different types of batteries or new and old batteries. Do not use re-chargeable batteries. Do not throw batteries into a fire, do not recharge them. Remove the batteries from the remote control if you are not going to use it for several weeks. Immediately remove any leaking batteries. Take care in doing this, as leaking batteries may cause burns to the skin or other physical injury.



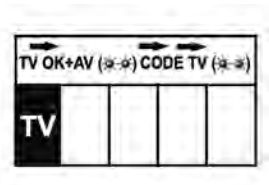
Please respect the environment and prevailing regulations. Before you dispose of batteries ask your dealer whether they are subject to special recycling and if they accept them back.





## Using your DTR Remote to control your TV

The DTR remote control is capable of controlling the common functions of your TV. Locate the "Remote control TV set-up codes" sheet from your accessories and find your make of TV on the list. Note the four digit number(s) applicable to your TV. On the DTR remote Press TV, now press and hold OK and AV together. The TV button will flash twice. Now enter the 4 digit code relating to your make of TV. Again the TV button will flash twice. If an invalid code is entered, the TV button will only flash one long flash.

Make sure that the entered code is the right one for your TV by pressing the 'active' buttons from the list below. If your TV does not respond, repeat the sequence with the next available code in the table. Once you are sure that the code is correct you can write it down in the box to the right and on an identical label on the inside battery door of your DTR remote control.



## Controlling your TV set

TV	Sets the remote control unit in TV mode (by pressing once) and enables you then to control your TV set.
 Vol. +/-	Switches the TV set on or off. TV volume control.
 CH +/-	Switches sound off or on again. Switches channel or selects an AV socket.
AV	Selects an AV socket.
0 to 9	Change channel or enters digital values.
TEXT	Access Teletext pages (On / Off).
'Play' button	Access Teletext pages (Off).
Colour buttons	Enables you to use the Teletext function on TV sets.

# Safety Information

## Power cord (mains lead)

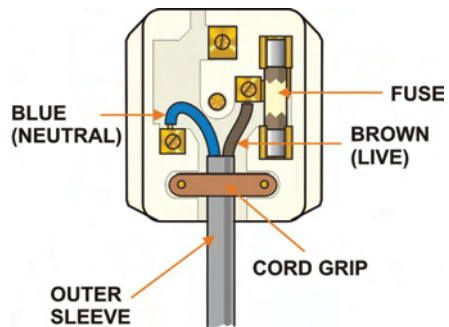
Do not place the product where a piece of furniture or other heavy object could trap the power cord (mains lead). Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. 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 component system 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 unplugged then 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 the earth terminal of your plug. If you use a 13 Amp (BS1363) plug, you will need a 5 Amp fuse.
- The mains plug is the disconnect device and therefore must remain readily operable.



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## 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 an ASTA or BSI approved 3 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.

	<b>WARNING</b> <b>RISK OF ELECTRIC SHOCK</b>	
	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.	
	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.	

CE

## Safe use and care of your audio visual equipment

We have designed and made this product to meet European safety standards, but as with any electrical equipment you must take care to get the longest working life from it and stay safe. Here are a few tips to help you do this.

Read these instructions carefully before you try to use the equipment.

Protect the mains lead. You must ensure the mains lead cannot be walked on, crushed, chafed, cut, and so on. The apparatus is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the apparatus itself has been turned off. If you are not going to use the apparatus for a long time, be sure to disconnect the apparatus from the wall outlet.


Avoid harsh conditions such as wet or damp places, high humidity, strong vibration, extremely high or low temperatures, strong sunlight or places which are dusty. Please avoid the contact of the set with water or humidity. Do not put into operation near bath, swimming pools.

Never let anyone push objects into holes and ventilation slots on the equipment.

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Don't continue to use this equipment if you have spilt liquids on it, if it is damaged in any way or if it does not work normally. Immediately unplug the equipment and get expert advice.

Pull the mains plug out of the wall socket during thunderstorms and disconnect the aerial lead.

 This product is only designed for household or similar general use. Any other use may invalidate the guarantee and might be dangerous.

### Ventilation

Place the equipment on a hard flat surface away from direct sunlight and heat sources. If it is in a cabinet, allow at least a 10cm gap all around. Take care to provide a good air circulation. Place the apparatus in a location with adequate ventilation to prevent heat built-up in the apparatus. Don't obstruct the ventilation slots, including those underneath, with soft furnishings. 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. Overheating will shorten the life of the equipment and increase the risk of fire.

### Cleaning

Disconnect the mains supply and use only a lightly dampened soft cloth. Do not use chemical solvents or strong detergents as these may damage the cosmetic finish.

### Batteries

Remove batteries when the equipment is not to be used for a long time. Batteries left in equipment may cause damage through deterioration and corrosive leakage, invalidating the guarantee. To protect the environment please use local recycling facilities for battery disposal. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

### Disposal



Waste electrical and electronic products must not be disposed of with household waste. Please refer to your local authority for disposal instructions.

Packaging materials can be recycled using your local collection facilities.

### Important safety warnings

- To prevent electric shock, do not remove any cover.
- If anything goes wrong, don't try and fix it yourself, get a qualified service agent to look at it.
- Do not expose this equipment to dripping or splashing or place any objects filled with liquids, such as vases, on the equipment.
- Never put a naked flame source on or near the equipment.
- Small parts. Do not let young children play with the equipment.
- Do not move your device for 20 seconds after removing the power to ensure that the actuator is completely locked. This helps prevent the media and the heads from accidental damage due to vibration, moving or shipping.
- Do not switch the power ON or OFF, during HDD initialisation.



# Functions

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NOTE: This product can be upgraded from software updates broadcast over the air to your DTR. Top Up TV reserves the right to transmit software updates that it would consider appropriate in order to improve the functionality of the product, without degrading the quality level.

1. Menu Language: English.
2. Channel lock, Menu lock.
3. Channel list sorted by D-book logical channel numbers.
4. BBC UK Compliant Over Air Download.
5. Time shift – pause live TV.
6. One button record (Instant recording of channels).
7. Dual recordings at the same time.
8. Split and series recordings support with Freeview Playback support.
9. Ability to record one channel while watching another channel.
10. x1, x2, x4, x8, x16, x32 forward and backward play options.
11. Play list shows available recordings (Event name, Duration, Days Left & Synopsis).
12. Timers list shows scheduled recordings (Channel, Event name, Date/Time & Duration).
13. Record timer via 8/14 day Programme Guide.
14. Records DVB subtitles (If any are broadcasted by the broadcaster).
15. Automatic channel search.
16. Guided first time installation.
17. 200 channels.
18. Automatic daylight saving time updating.
19. MHEG-5 Engine support.
20. Freeview Playback 2 support.
21. Conditional access.
22. Low Power mode support will be introduced with OAD soon by Top Up TV where the power consumption will be less than 3 W.

## Remote control

First open the battery cover on the underside of the remote control. Insert two 1.5 volt batteries, (R03/AA) observing the polarity symbols (+/-) in the battery compartment again. While using the remote control, direct it towards the front side of the receiver. If the remote control does not work or the chosen function can not be made, the batteries are probably exhausted and they should be replaced as soon as possible. Please remove batteries if the unit is not to be used for a long period of time.

# Technical Specifications

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GENERAL CHARACTERISTICS	
Supply Voltage	220 - 240V AC ~ 50Hz
Input Frequency	470 Mhz – 862 Mhz
Maximum Power Consumption	22 W
Standby Power Consumption	19 W
Operating Temperature	5°C to +40°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	8MB
DDRRAM	64MB
DIGITAL CAPABILITIES	
Transmission Standards	DVB, MPEG2
DEMODULATION	
COFDM	with 2K/8K FFT mode
FEC	for all DVB modes (auto 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 5MHz sweep signal
AUDIO	
MPEG1 Layer 1 and 2	
Sampling frequencies supported	32kHz, 44.1kHz or 48kHz
Output can be programmed as STEREO, LEFT only or RIGHT only (on both outputs). This is useful for dual mono channels in order to select the correct sound track, which is stored for every channel.	

Wide Dynamic Range	16-bit resolution
REMOTE CONTROL	
Operating Distance	10m max.
Batteries	2x1.5V Micro (R-03/AA)
TUNERS	
2 x RF In	IEC 60169-2 type, female (75Ohm)
2 x RF Out (loop through)	IEC 60169-2, male (75Ohm)
HARD DISK	
Hard Disk Capacity	320 GB
FRONT PANEL	
Display	VFD
Remote Control Keys	
AUDIO R / L	
Connector	2 x RCA (R + L)
Output	2 Vrms, 0 dBfs / Z = 10 kohm
DIGITAL AUDIO	
Output	Optical SPDIF
AV & DATA IN / OUT	
Scart	TV scart, AUX scart
RGB Video Output	TV scart
RGB Video Input	AUX scart
CVBS Video Output	TV scart, AUX scart
CVBS Video Input	AUX scart
Analog Audio Output	TV scart, RCA jack, AUX scart
Analog Audio Input	AUX scart
Digital Audio Output	Optical output
Data Interface	RS232 (max 115200 bps), 9 pin

# TUTV Terms & Conditions

This document sets out the basis of your Agreement with Top Up TV Europe Limited in respect of the DTR (as defined below). In this Agreement we refer to Top Up TV Europe Limited as "us" or "we" and we refer to you as "you".

## 1.0 THE TERMS WE USE

1.1 We have used words with capital letters where those words have particular meanings. These meanings are set out below:

"Address"(if you purchased your DTR directly from us) means the address of your home in the United Kingdom given to us during the Order Process;

"Agreement" means the contract between you and us on the terms set out in this document and (if you have an HP Agreement) the HP Agreement;

"DTR" means the digital video recorder box (also known as a Personal Video Recorder or PVR) that you purchase from us and as described more particularly during the Order Process;

"Fees" means the fees payable by you to us for the DTR. If you purchased the DTR directly from us, this will be the fees for the DTR confirmed during the Order Process and/or in the HP Agreement and which include delivery charges and VAT;

"Freeview/Freeview is a separate free digital TV service which does not require a monthly subscription. Freeview is not operated by Top Up TV Europe Limited;

"HP Agreement" means the additional terms of the Agreement in respect of your purchase of the DTR on a hire purchase basis;

"Order Process"(if you purchased your DTR directly from us) means the process by which you purchased a DTR whether over the telephone or internet;

"Top Up TV Services" means any digital video subscription or other services which you obtain from Top Up TV Europe SARL (a different company from us but in the same group) under separate agreement(s);

"Top Up TV Services Agreement" means an agreement you enter into with Top Up TV Europe SARL for the provision of Top Up TV Services via the DTR; and

"Viewing Card" means the electronic card that enables you to view those parts of the Top Up TV Services and/or additional service to which you are entitled by means of a DTR and/or any card that enables you to view any other service we provide.

Please note: clauses 2 to 5 (inclusive) only apply if you purchased your DTR directly from us. If you did not purchase your DTR directly from us, please refer to clause 6 onwards.

## 2.0 ORDER PROCESS

2.1 All orders placed by you for DTRs through the Order Process are subject to acceptance by us. We may choose not to accept your order for any reason in which case you will not be charged any Fees. We will confirm to you whether or not your order has been accepted or not.

2.2 If the Order Process you use is via our website then the technical steps you need to take in order to complete your order will be described to you on-screen.

2.3 We will confirm in writing to you the key details regarding your order once it is accepted by us including the price and delivery details for the DTR that you have chosen. Please note that prices reduced for sales or specific promotions are only valid for the specified period.

2.4 We reserve the right to amend the price and specification of any DTR published on our website or otherwise at any time. The price and specification will of course be made clear to you during your Order Process before you confirm your order.

2.5 You confirm that all information you have supplied to us is correct. You will tell us if you change your Address or change your DTR model or make.

2.6 In order to use your DTR to access Top Up TV programme content, you will need a viewing card and to subscribe to the relevant Top Up TV Services Agreement.

## 3.0 PRICE AND PAYMENT

3.1 You agree to pay us the Fees on accepting this Agreement as agreed with you during the Order Process and confirmed to you in writing.

3.2 Where relevant, you confirm that the credit/debit card that is being used is yours. All credit/debit card holders are subject to validation checks and authorisation by the card issuer. If the issuer of your card refuses to authorise payment, or we or our authorised agents are unable to contact your card issuer, we will not be liable for any delay or non-delivery and we are not obliged to inform you of the refusal.

3.3 During the Order Process we may offer you the opportunity to pay by alternative payment means such as cash or online payment system. If we do so, we may charge an additional amount to cover our additional administration costs. Any such charges will be set out in the Order Process.

3.4 We may carry out a credit check on you which involves searching the files of one or more credit reference agencies (which may keep a record of the search). We may also disclose details about your conduct as a customer to those credit reference agencies. Such information is used only to help make credit decisions affecting you or members of your household, or occasionally for fraud prevention or tracing debtors.

3.5 We are not responsible for your card issuer or bank charging you as a result of our processing of your credit/debit card payment.

3.6 We may pass your details to a third party debt collection agency to reclaim Fees owed to us.

## 4.0 DELIVERY AND RISK

4.1 We despatch DTRs ordered by you when they are available or otherwise as set out during your Order Process and in any event 30 days after the day after you place your order.

4.2 The DTR will be sent to your Address or to an alternate address that you nominated as part of the Order process. We cannot be held responsible if this delivery address is unsuitable for you or the wrong details have been given.

4.3 We do not accept any liability for late deliveries or deliveries lost in the post.

4.4 Once the DTR has been received by you, all risk of damage to, or loss of, the DTR shall pass to you. If you intend to cancel your DTR order (under clause 5 below) you must keep good care of the DTR pending return of it to us.

4.5 Subject to clause 6 below, the DTR will only become your property when all Fees due or that become due to us from you have been paid in full and therefore we may require its return where payment is not received as due.

## 5.0 CANCELLATION AND RETURNS

5.1 You may cancel this Agreement within seven working days commencing on the day after the date that the DTR is received by you by contacting us on 08444 159 159. For the avoidance of doubt, you will be asked to confirm any notifications of termination in writing. Where a notice of cancellation is given under clause 5.1, the giving of notice shall also have the effect of cancelling the HP Agreement. This Agreement will terminate automatically if you terminate or cancel your HP Agreement.

5.2 If this Agreement is cancelled you will no longer be able to access any Top Up TV Services or content that you have stored in your DTR and you are required to return to us the DTR at your own cost. We will provide you with information about how to do so. You acknowledge that failure to return the DTR may result in us charging you for the replacement cost of such DTR or the reasonable costs incurred by us in reclaiming it. You must return the goods to the address stated in clause 11 clearly stating your name with the returned DTR.

5.3 If there is a fault with your DTR then you can return it to us for repair or replacement at any time within 12 months of the commencement of this Agreement.

## 6.0 SOFTWARE

6.1 For the avoidance of doubt, the software in the DTR is owned by us, or is licensed by one of our suppliers, and will not become your property. You must not remove software from the DTR, add software to the DTR or tamper in any way with the software in the DTR. Also, you must not authorise anyone else to do any of these things.

- 6.2 You must allow us, and only us, to update the software in the DTR by sending signals via the digital terrestrial network to the DTR.
- 6.3 This clause 6 will continue after this Agreement is cancelled or terminated for any reason.
- 7.0 VIEWING CARD
- 7.1 What is a Viewing Card?
- A Viewing Card is an electronic device that, when activated, acts like a key to enable you to view those parts of the Top Up TV Service to which you are entitled. We, or a third party we will appoint, may provide you with a single Viewing Card. An additional charge will apply to further Viewing Cards that you request and to replacement Viewing Cards as set out in this clause 7. We may activate or deactivate Viewing Cards in accordance with the Top Up TV Services Agreement.
- 7.2 Ownership of a Viewing Card: The Viewing Card will remain our property (or the property of our licensors) at all times. You agree to promptly send it back to us, or a third party we will appoint, within 7 days where we ask you to do so. Your Viewing Card is for your personal use only and must not be given to anyone else or we may deactivate it.
- 7.3 Interference with Viewing Card: You must ensure that your Viewing Card is kept in reasonably appropriate conditions and treated in an appropriate way. This includes (but is not limited to): (i) keeping the Viewing Card at a temperature between 0°C and 40°C; (ii) keeping the Viewing Card at a humidity level between 20% and 80%; (iii) handling the Viewing Card only using the plastic portion; (iv) not handling the Viewing Card using gilded connectors or separating the chip from its support; (v) not inserting the Viewing Card in anything other than its intended reader; (vi) not attempting to make any modifications of any kind to the Viewing Card; and (vii) not decompiling, disassembling, modifying or reverse engineering the Viewing Card or any part of it.
- 7.4 DTR. You should keep your Viewing Card in your DTR at all times, and the DTR connected to a mains supply and in standby mode while not in use unless we instruct you otherwise from time to time. In addition you must allow us, and only us, to update the software in your DTR and/or Viewing Card where we consider it appropriate, including by sending signals to your DTR. Your viewing may be temporarily interrupted during software updates. Failure to comply with this paragraph or our instructions may result in interruptions to your use of the DTR and/or interruptions to the Top Up TV Services.
- 7.5 This clause 7 will continue after this Agreement is cancelled or terminated for any reason.
- 8.0 LIMITATION OF LIABILITY
- 8.1 We will always be liable to you for death or personal injury caused by our negligence or fraud. In addition we do not restrict or limit our liability to the extent it arises as a result of our breach of this Agreement or negligence (except as set out in Clauses 8.2.4, 8.2.5 and 8.2.6).
- 8.2 Subject always to clauses 8.1 and 8.3, we will not be liable under this Agreement for any damage or loss suffered or incurred by you:
- 8.2.1 as a consequence of any fault in your television set or your aerial or any problems associated with Freeview, its channels or service information;
- 8.2.2 as a consequence of any use of your DTR with any decoding apparatus which we have not approved;
- 8.2.3 as a consequence of any fault in your Viewing Card caused by you or anyone else damaging or tampering with it, your negligence or failure to follow our reasonable instructions; or
- 8.2.4 for losses you incur that were not foreseeable to you and us when the Agreement was entered into (whether due to our breach of this Agreement or the DTR otherwise);
- 8.2.5 that was not caused by our breach or negligence; or
- 8.2.6 if you are not entering into this Agreement as a consumer.
- 8.2.7 Due to your failure to adhere to the recommendations and requirements in Clauses 6.1, 7.3 and/or 7.4.
- 8.2.8 As a consequence of our failure to deliver the DTR caused by events outside our reasonable control (this includes but is not limited to, transmission failure, extremes of weather, industrial disputes, nuclear accident, acts of God, war or terrorist activity, riot, civil commotion, malicious damage, compliance with any law or governmental order, rule, regulation or direction coming into force after the date of this Agreement, accident, breakdown or plant or machinery, fire, flood, storm or default of suppliers or sub-contractors).
- 8.4 To the fullest extent permissible under law, we disclaim any and all warranties of any kind (whether express or implied) in relation to the Service and/or Additional Service(s). Your statutory rights as a consumer are not affected however. For more details on your statutory rights you should contact your local Trading Standards Office or Citizen's Advice Bureau.
- 8.4 We will not be liable under this Agreement for any damage or loss suffered or incurred by you as a consequence of our failure to fulfil our obligations under this Agreement caused by events outside our reasonable control (this includes, but is not limited to, transmission failure, extremes of weather, industrial disputes, nuclear accident, acts of God, war or terrorist activity, riot, civil commotion, malicious damage, compliance with any law or governmental order, rule, regulation or direction coming into force after the date of this Agreement, accident, breakdown of plant or machinery, fire, flood, storm or default of suppliers or sub-contractors).
- 8.5 To the fullest extent permissible under law, we reject any and all warranties of any kind (whether express or implied) in relation to the DTR purchased by you from us. Your statutory rights as a consumer are not affected however. Your statutory rights include your right to receive goods conforming to their description and which are of satisfactory quality. For more details on your statutory rights you should contact your local Trading Standards Office or Citizen's Advice Bureau.
- 8.6 Subject to clauses 8.1 and 8.2, our liability to you arising out of or in connection with this Agreement shall be limited in to the Fees payable by you to us in relation to the DTR to which our responsibility relates.
- 9.0 CONTENT
- 9.1 We reserve the right to send visual and data content, including channel preview and advertising content and electronic programme guide data, to your DTR. This content may fill up to 15% of the space of the hard disc of your DTR and you will not be able to record on that space.
- 9.2 You must not use the DTR to access any services except the Top Up TV Services, Freeview and any other services we or any of our associated companies may offer or authorise you to receive.
- 10.0 OTHER MATTERS
- 10.1 You may not transfer your rights or obligations under this Agreement to anyone else.
- 10.2 If you telephone us we may record your call for training purposes and to ensure that information is captured accurately and in order to monitor the quality of service that we provide to you. We will not do so for any reason unconnected to these purposes.
- 10.3 We are registered under the Data Protection Act 1998. Your personal data will be used and processed in accordance with our privacy policy which is available on our website.
- 10.4 This Agreement is governed by and interpreted in accordance with the laws of England (or the laws of Scotland if you are domiciled there). Disputes arising in connection with this Agreement shall be subject to the exclusive jurisdiction of the courts of England and Wales unless you choose the jurisdiction of your domicile in Scotland or Northern Ireland.
- 10.5 Please note that we reserve the right during and/or after the cancellation of this Agreement to send a signal to your DTR disabling certain of your DTR's functions where you breach this Agreement, the Top Up TV Services Agreement or the HP Agreement including where you fail to make any outstanding payment or payments where due from you under such agreement. Except where you persistently breach any of the agreements referred to above, the disabled functions will be restored on your DTR as soon as is reasonably possible after you comply with the agreements.
- 11.0 CONTACT DETAILS
- 11.1 Top Up TV Europe Limited has its registered office at 22 Grenville Street, St Helier, Jersey JE4 8PX
- 11.2 Our VAT number is 892 3602 12
- 11.3 Our customer helplines and services are available as follows:

For Customer Services, call 08444 159 159 (calls are charged at 5p per minute from a BT landline. Call from mobiles or other networks may be considerably more). This line is open between 9am and 5pm, Monday to Friday. Information correct at April 2009.

For correspondence, write to PO Box 801, Kirkcaldy, Fife, KY2 6WW or email enquiries@topuptv.com

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## Digital Switchover

**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.

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](http://www.digitaluk.co.uk)

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# INFORMATION ABOUT PRODUCT DISPOSAL

## ENGLISH



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products

### A. Information on Disposal for Users (private households)

#### 1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge\*. In some countries\* your local retailer may also take back your old product free of charge if you purchase a similar new one.

\*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

#### 2. In Other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of [www.swico.ch](http://www.swico.ch) or [www.sens.ch](http://www.sens.ch).

### B. Information on Disposal for Business Users

#### 1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

#### 2. In Other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

# INFORMATION ABOUT PRODUCT DISPOSAL



The battery supplied with this product contains traces of lead.

**For EU:** The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation. Please contact your local authority for details on the collection and recycling schemes.

Pb



# SHARP

## TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. ("Sharp") guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, signal related issues, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.
2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.
3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.
4. In the unlikely event of this product requiring repair, please contact the Help line on 08444 159 159.
5. No person has any authority to vary the terms or conditions of this guarantee.
6. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Help Line on the number given below.

Help Line - 0844 159 159

**SHARP ELECTRONICS (U.K.) LTD.**  
4 Furzeground Way, Stockley Park, Uxbridge,  
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