

MATSUI



How to use your DTAR10 Receiver

Safety warnings

Ventilation

Allow at least a 10 cm gap around your unit for sufficient ventilation. Do not cover the ventilation openings.

Heat

Do not place your unit on top of a unit that emits heat.

Do not place naked flame sources, such as lighted candles, on your unit.

Do not allow your unit to be exposed to hot, cold or humid conditions.

Moisture

If required, use a soft damp cloth to clean the casing. Do not use strong detergents or solvents.

Do not expose your unit to dripping or splashing liquids.

Do not place any objects filled with liquids, such as vases, on your unit.

Electrical

To provide extra protection from power surges we recommend that you connect your unit via an external surge protection device. Do not connect or modify cables when your unit is plugged in.

Do not remove the casing, there are no user serviceable parts inside.



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Partmaster, our accessories and spares service can provide accessories, spares and replacement instruction books for this and virtually any other domestic electrical item you may have – with most items being dispatched within 24 hours!

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Introduction

Thank you for buying the DTAR10 Digital Terrestrial Television and Radio set-top box. The DTAR10 enables you to receive digital television and DAB digital radio through your TV aerial and existing TV without the need for subscription-based cable or satellite access.

Box Contents

The following items are included in your box:



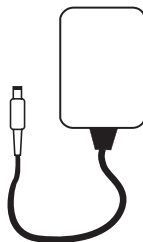
DTAR10 Digital TV and Radio set-top box main unit



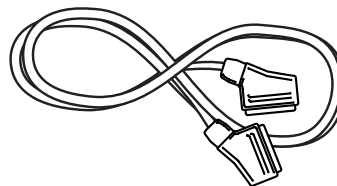
Remote control



Batteries for
remote control



Power adapter



SCART to SCART lead

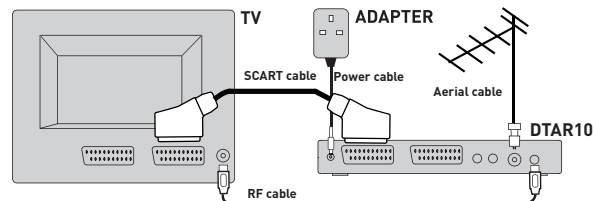
Connecting up

Connecting to a TV

Use the supplied SCART lead to connect the DTAR10 to your TV as shown opposite to view digital channels. If you also want to view analogue channels connect a suitable RF lead as shown.

Connect the aerial directly to your DTAR10.

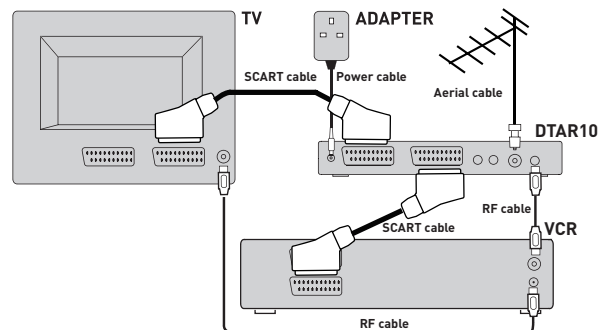
Connect the power adapter to your DTAR10 and plug in to the mains.



Connecting to a TV and VCR

Use the supplied SCART lead to connect your DTAR10 to your VCR as shown opposite to be able to record digital channels. Connect an additional SCART lead from your DTAR10 to your TV to enable you to view the digital channels and if you also want to view analogue channels connect a suitable RF lead as shown.

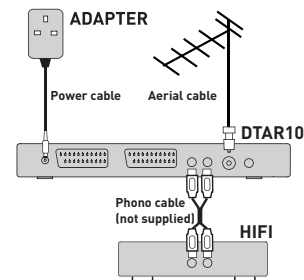
Connect the aerial directly to your DTAR10.



Connecting to a hifi

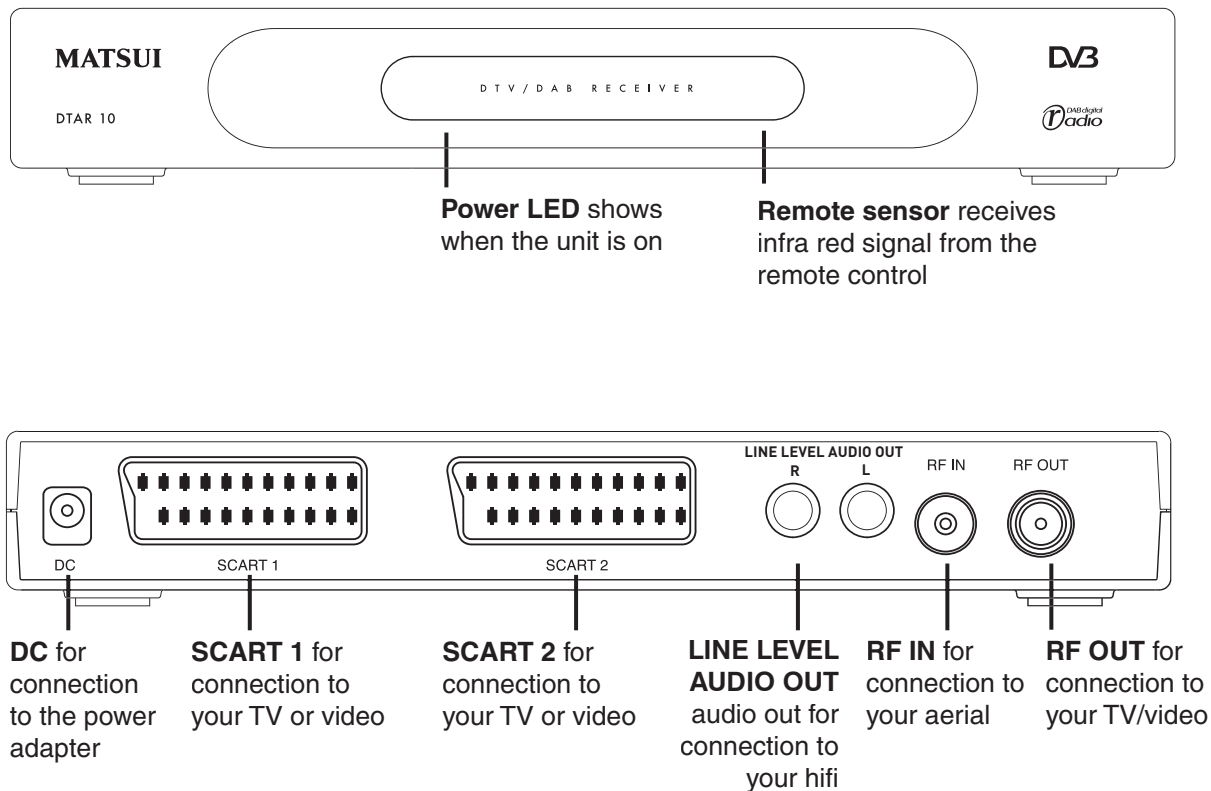
Use a dual phono to dual phono lead (not supplied) to connect your DTAR10 to your hifi as shown to be able to record digital radio or output the audio through your hifi speakers.

Connect the aerial directly to your DTAR10.

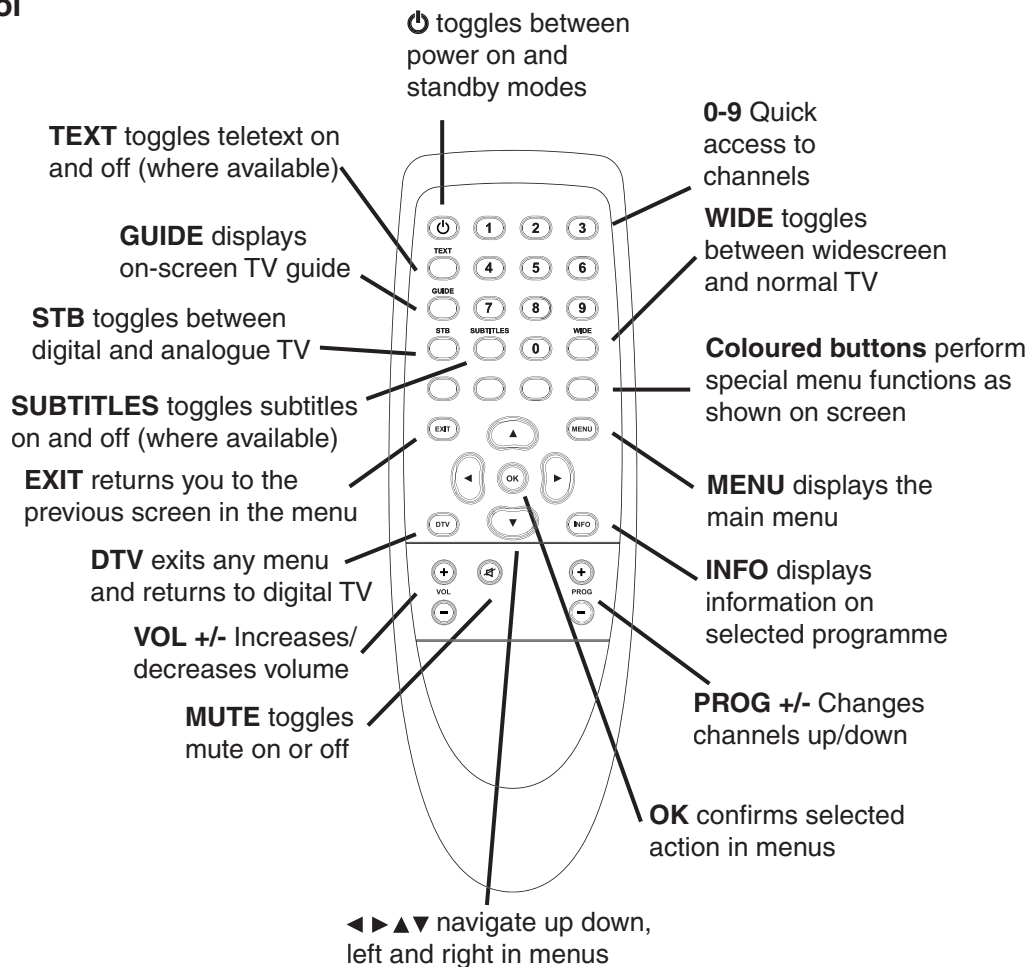


Overview diagrams

Main Unit



Remote Control



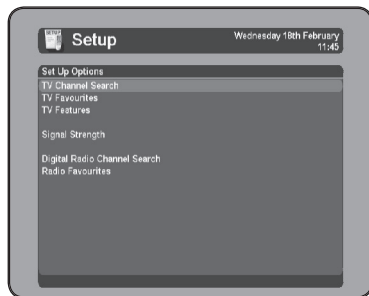
Getting started

This section provides information on how to set up and start using your DTAR10 once you have connected up as described on page 2. For further details on using your DTAR10 see the other sections in this manual.

1 Insert batteries in the remote

Remove the cover on the rear of the remote control and insert two 'AA' size batteries. Ensure you insert them the correct way round as shown inside the battery compartment. Replace the cover.

2 Switch the unit on



With the unit connected to the power you should see the green light on the front panel indicating the unit is on.

1. Switch on your TV. You should see the Setup screen. If you do not see the Setup screen you may have to select AV or similar on your TV remote.
2. Press OK on your remote to start a search to find all the free digital channels available in your area. Press the green button (OK) when the search is finished. You see the first channel displayed on screen.

3 View digital TV

Once a search for channels has been completed you can watch any of the stored digital channels as follows:

1. Press the DTV button at any time or if viewing the menu on screen, press Exit repeatedly until you see a channel on the screen.
2. Change to another channel by using one of the following methods:
 - press the number of the channel you want
 - press the up or down arrow keys and press OK to select
 - press GUIDE and use the up, down and OK keys, see TV Guide on page 7.

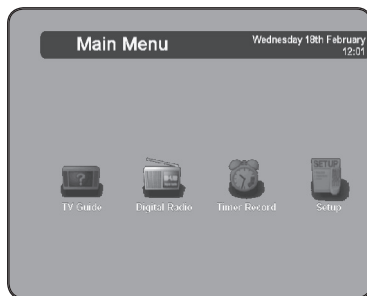
4 View programme information



You can view extra information about the programme being viewed and also navigate to another channel or see what programme is on next using the info bar. To view and use the info bar whilst watching a digital TV channel:

1. Press the INFO or OK button. You see the info bar at the bottom of the picture.
2. Press the up and down arrows to move through and select other channels available and use the right arrow to see what programme is coming up next (where broadcast).
3. Select a channel, press INFO again or press no buttons for 5 seconds to close the info bar and return to the TV.

5 Listen to digital radio



To listen to digital radio through your television:

1. Press the MENU button. You see the Main Menu.
2. Use the left and right arrows and OK to select the Digital Radio icon. The first time you select Digital Radio a search will find all stations available to you.
3. Press the green button when the search is finished. The first station on the list will be selected and you will see the station name, any scrolling text being broadcast (where available) and the current volume level displayed on your TV.
4. Change to another station by pressing the number of the station you want or pressing the up or down arrows and OK to change to another station on the list.

Viewing extra information

Press the yellow button (Info on/off) to view extra information, including DAB channel and frequency and multiplex name.

Please read the instructions in the rest of this manual for further guidance on using your DTAR10.

Using the main menu

The main menu gives you access to the TV Guide, Digital Radio, Timer Record and Setup functions of your DTAR10. Press the MENU button to access the main menu then select one of the icons to access the submenu for that function.

TV Guide



The TV Guide menu shows the complete list of digital channels available to you, shows which programmes are on and enables you to select favourite channels or view further information about an individual programme.

You access the TV Guide from the main menu by selecting the TV guide icon or directly from the remote control by pressing the GUIDE button.

The channel list shows the channel number and name, the current programme on each channel and time it started. It also shows additional information about the highlighted programme (where broadcast) along the bottom of the screen.

Navigating through the list

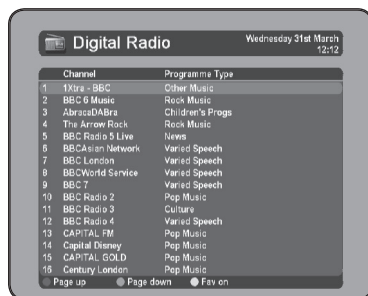
Use the navigation keys on the remote to scroll up and down through the list of channels and left and right through the schedule for that channel (where broadcast). You can also jump up and down the list using the red (Page up) and green (Page down) buttons. If you have set up favourite channels you can toggle the list between showing only those channels you have selected as favourites and all channels by pressing the yellow (Fav On/Fav Off) button. See pages 10 and 11 for more details about favourites.

Selecting a channel

You can select a channel to view in one of two ways:

- Enter the channel number listed alongside the channel in the list and press OK
- Navigate through the list to the channel using the arrow keys and press OK

Digital Radio



The Digital Radio menu shows the complete list of digital radio stations available to you, shows which type of content they broadcast and enables you to select favourite stations.

You access the Digital Radio menu from the main menu by selecting the Digital Radio icon.

The station list shows the station number and name and programme type.

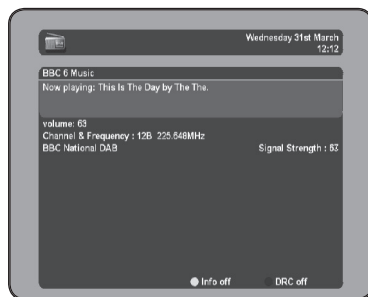
Navigating through the list

Use the arrow keys on the remote to scroll up and down through the list of stations. You can also jump up and down the list using the red (Page up) and green (Page down) buttons. If you have set up favourite channels you can toggle the list between showing only those stations you have selected as favourites and all stations by pressing the yellow (Fav On/Fav Off) button. See page 13 for more details about favourites.

Selecting a station

You can select a station to listen to in one of two ways:

- Enter the station number listed alongside the station name in the list and press OK.
 - Navigate through the list to the station using the arrow keys and press OK.
- Press Exit to return to the station list.



Timer Record



The Timer Record menu enables you to set your DTAR10 to switch on (if in standby mode) and tune to a channel for a set period of time. You can use this to record programmes to your VCR even when you are not watching TV.

Note This facility does not program your VCR to record the programme. You need to set your VCR manually to do this.

Note Your DTAR10 will automatically tune to the channel you selected at the time you set. You cannot watch other digital channels whilst a record timer is active, however, you can switch to analogue TV and watch analogue channels by pressing the STB button.

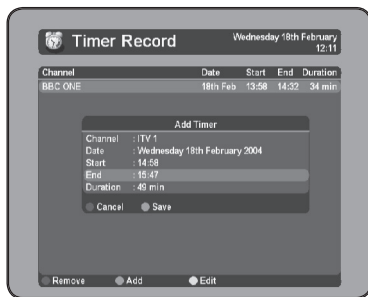
You access the Timer Record function from the main menu by selecting the Timer Record icon. You see a list of the recordings set. You add or delete recordings from this list as described below:

Adding or editing a recording

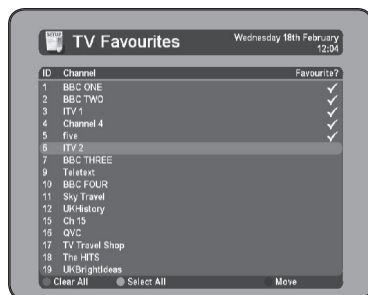
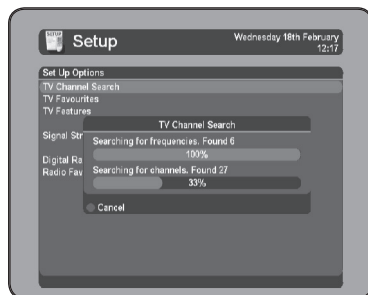
1. Press the green (Add) button. You see the Add Program popup.
2. Press the up and down arrows to scroll between Channel, Date, Start time, End time and Duration settings.
3. Press the left and right arrows to change the value of each of these settings.
4. Press the Green (Add) button to confirm your changes or Red (Cancel) button to cancel your changes and return to the recording list.
5. To set another record timer repeat steps 1 to 4 above.

Deleting a recording

1. Press the up and down arrows to scroll up and down the recording list and highlight the recording you want to delete.
2. Press the Red (Remove) key to remove the highlighted recording from the list.



Setup



The Setup menu enables you to perform a search for digital TV channels and radio stations, set up and manage your list of favourite channels and stations, change audio and visual settings and get help aligning your aerial.

You access the Setup menu from the main menu by selecting the Setup icon.

TV Channel Search

Your DTAR10 can automatically scan the digital television frequencies and store the channels available in your area. The number of channels available will vary depending on coverage at your location and the orientation and type of your aerial. See Troubleshooting for further information on coverage and aerial issues.

1. Select the TV Channel Search option using the up and down arrow keys and pressing OK.

The search will start and a bar will indicate the progress and the number of channels found in your area.

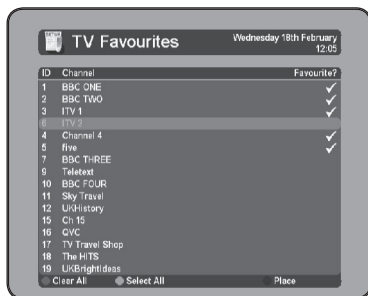
Note: You can cancel the search by pressing the red button or Exit at any time.

2. Press OK to exit the search menu when the search is complete.

TV Favourites

The TV Favourites option enables you to view a complete list of your Digital TV channels and mark those that are your favourites. Marking your favourite channels puts them at the top of the channel list for easy access. You can also manually change the order in which the channels appear in the channel list.

Select the TV Favourites option using the up and down arrow keys and pressing OK. You see a list of all the channels available to you.



Selecting your favourite channels

1. Use the up and down arrows to highlight a channel then press OK. The channel is marked with a tick in the favourites list.
2. Repeat step one as required to select other channels, or press the Green (Select All) button to select all channels or Red (Clear All) button to clear all selections.

Reordering your channel list

1. Use the up and down arrows to highlight a channel you want to move in the list then press the Blue (Reorder) button.
2. Use the up and down arrows to move to the location at which you want the highlighted channel to appear on your channel list.
3. Press the Blue (Place) button to place the channel in that location.
4. Repeat steps 1 to 3 to move other channels.

TV Features



The TV Features option enables you to set up language options for audio and subtitles (where available), set your TV format and video output.

Select the TV features option using the up and down arrow keys and pressing OK. You see a list of features which you can view or change.

Audio Language

Use the up and down arrows to highlight the Audio Language option. Use the left and right arrows to change the audio language. This option is dependant on the broadcaster providing alternative audio languages. The default is English.

Subtitle Language

Use the up and down arrows to highlight the Subtitle Language option. Use the left and right arrows to change the subtitle language. This option is dependant on the broadcaster providing alternative subtitle languages. The default is English.

Display Format

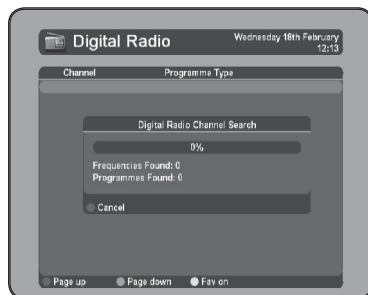
Use the up and down arrows to highlight the Display Format option. Use the left and right arrows to change the format between 4:3 (standard TV) or 16:9 (Widescreen TV).

Signal Strength

The signal strength option enables you to view the signal level for all the known channels. If you find you have poor reception you can have an assistant move the aerial whilst you observe the signal meter. Once the signal meter is either yellow or green the reception should be satisfactory.

Press yellow (Refresh all) to recheck the signal strength for all the channels.

Note If you optimise the signal strength for one channel it may affect the reception of other channels.



Digital Radio Channel Search

Your DTAR10 can automatically scan the digital radio frequencies and store the stations available in your area. The number of stations available will vary depending on coverage at your location and the orientation and type of your aerial.

1. Select the Digital Radio Channel Search using the up and down arrow keys and pressing OK.

The search will start and a bar will indicate the progress and the number of stations found.

Note: You can cancel the search by pressing the red button or Exit at any time.

2. Press the green button to exit the search menu when the search is complete.

Radio Favourites

The Radio Favourites option enables you to view a complete list of your Digital Radio stations and mark those that are your favourites. Marking your favourite stations puts them at the top of the station list for easy access. You can also manually change the order in which the stations appear in the channel list.

Select the Radio Favourites option using the up and down arrow keys and pressing OK. You see a list of all the stations available to you.

Selecting your favourite stations

1. Use the up and down arrows to highlight a station then press OK. The station is marked with a tick in the favourites list.
2. Repeat step one as required to select other stations or press the Green (Select All) button to select all channels or Red (Clear All) button to clear all selections.

Reordering your station list

1. Use the up and down arrows to highlight a station you want to move in the list then press the Blue (Reorder) button.
2. Use the up and down arrows to move to the location at which you want the highlighted station to appear on your station list.
3. Press the Blue (Place) button to place the station in that location.
4. Repeat steps 1 to 3 to move other channels.

Troubleshooting

In most cases problems with your DTAR10 can be solved by resetting your unit. To reset your unit, remove the power supply from the rear and reconnect again. Note this will reset your DTAR10 to default settings.

Some other possible problems and the most common solutions are given below:

I can't see any picture

Check that your DTAR10 is connected properly to your TV/VCR and switched on.

Ensure your TV is set to use the SCART input (some TVs will not automatically detect this).

Make sure the SCART cable is connected the right way round as indicated on the cable.

The channel search finds no channels

Check that your aerial is connected directly to your DTAR10 and that it is of suitable type (Check with your retailer if unsure). Note that most indoor aerials are unsuitable for receiving Digital TV.

Repeat the channel search, available on the Setup menu.

I cannot see my old analogue channels

Check that you have connected a suitable RF cable (not supplied) between your DTAR10 and your TV.

Press the DTV button on the remote to toggle between Digital and Analogue channels.

Software updates

Your DTAR10 contains software which may occasionally be updated to provide an enhanced service or improve operation. These updates will happen automatically and are broadcast usually in the middle of the night to your unit. You do not need to do anything to enable these updates. The updates will only happen when your unit is on or in standby, we recommend therefore that you do not unplug your unit from the mains when not in use but switch it to standby mode to enable any updates to take place.

Technical Specifications

General

Size (mm)	120 (w) x 218 (l) x 30 (d)
Weight	300 g
Power Consumption	800 mA (max)
System	
Processor	FS5021 DVB-T/DAB Decoder DSP/ RISC processor
SDRAM	16 Mb
Flash	2 Mb
MHEG-5 engine	Compliant with DTG profile v1.05

DVB Reception

Frequency	474-858MHz
Transmission standards	DVB-T, MPEG-2
Demodulation	COFDM with 2K/8K FFT mode
FEC	all DVB modes
Video	MP@ML, PAL, 4:3/16:9
Audio	MPEG layer I & II 32/44.148kHz

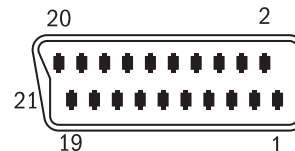
DAB Reception

Frequency	Band III UK only
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Connections

UHF Aerial input, UHF Aerial output + 2 SCART.

SCART pin connections



TV SCART

1 Audio right output	12 n/c
2 n/c	13 Ground
3 Audio left output1	14 n/c
4 Ground	15 Red Output
5 Ground	16 Fast blanking output
6 n/c	17 Ground
7 Blue output	18 Ground
8 Function switching output	19 CVBS output
9 Ground	20 n/c
10 n/c	21 Ground
11 Green output	

VCR SCART (no RGB)

1 Audio right output	12 n/c
2 n/c	13 Ground
3 Audio left output1	14 n/c
4 Ground	15 n/c
5 Ground	16 Fast blanking output
6 n/c	17 Ground
7 n/c	18 Ground
8 Function switching output	19 CVBS output
9 Ground	20 n/c
10 n/c	21 Ground
11 n/c	

Due to continued product improvement, these specifications may change without notice.



The product complies with the following European Council Directives:

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

