

# SPECIAL EDITION

*DAB digital*  
**radio**™



**DAB**  
Digital Audio Broadcasting



# PURE

# Safety instructions

Keep the unit away from heat sources.

Do not use the unit near water.

Avoid objects or liquids getting into the unit.

Unplug the power lead from the wall outlet if the unit will not be used for a long period.

## Mains safety

The unit uses a 230V AC 50 Hz mains supply.

If you want to change the fuse in your digital radio, replace it with the same type as stated on the unit. Access the fuse by removing the mains lead, and turning the fuse holder anticlockwise using the slot. The fuse holder will pop out enabling replacement.

When replacing the fuse in the supplied moulded mains plug, always refit the integral fuse holder/cover. Always fit a 3 amp fuse either in the plug or adapter, or at the distribution board.

Do not attempt to remove any screws or open the unit.

No user serviceable parts are inside.

For your safety, always obey the warning:

**CAUTION - RISK OF ELECTRIC SHOCK - DO NOT OPEN COVER**

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### Credits

This manual was written by Bruce Murray and illustrated by Philippa Page. It is a product of Videologic Systems, Imagination Technologies Ltd., Home Park Estate, Kings Langley, Hertfordshire WD4 8LZ, UK.

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# Introduction

Thank you for choosing the PURE **Special Edition DAB Digital Radio**.

This manual provides information on setting up your unit, instructions on using it and details of the support available.

DAB digital radio provides superb quality sound, eliminating the hiss, crackle and fade associated with analogue radio broadcasts.

Broadcast since 1995, DAB digital radio provides high-detail, digital-quality sound; supports over 150 national, local and digital-only channels; and enables broadcasters to provide additional text information such as the station name and track information or a scrolling ticker showing sports results, news headlines and financial information.

The **Special Edition DAB Digital Radio** comes with an LCD display and fully-featured infrared remote control.

# Setting up

This section provides information on setting up your digital radio ready for use.

## Unpacking

After unpacking your box check that you have all of the following items. Contact us if any items are missing or damaged.

1. One **Special Edition DAB Digital Radio**.
2. Two AAA batteries for the remote control handset.
3. One infrared remote control handset.
4. One telescopic DAB indoor aerial.
5. One power lead with moulded 3-pin plug.

## Connecting your aerial

You need to connect either the supplied telescopic indoor aerial or an external DAB aerial to your digital radio to receive digital radio transmissions. To find out about DAB coverage in your area, see the list of useful addresses on page 12.

1. Screw the aerial plug onto the F-type aerial connector on the top of your digital radio.
2. For the best reception, if using the indoor aerial supplied, extend the aerial fully. You may have to experiment with different angles to find the best reception for particular services.

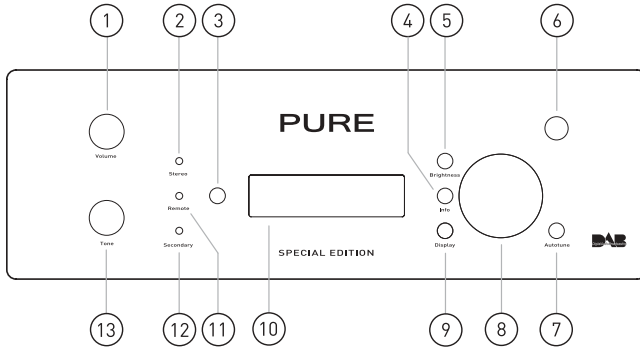
## Connecting to power supply

Once you have connected your aerial, connect one end of the supplied power lead to the socket on the side of your digital radio and connect the other end to a wall outlet.

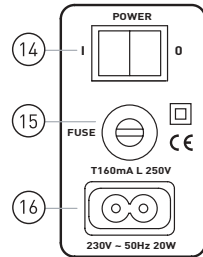
# Controls and Connectors

This section provides information on the controls and connectors available on the top and side panels of your digital radio. For information on the remote control, see page 8.

## Top Panel



## Side Panel



- ① **Volume** control
- ② **Stereo** LED indicates when stereo service is being received, see page 6
- ③ **Remote sensor** picks up the infrared signal from the remote
- ④ **Info** button changes the information mode of the display, see page 7
- ⑤ **Brightness** button changes the display brightness
- ⑥ **Aerial** socket
- ⑦ **Autotune** button provides one touch tuning, see page 5
- ⑧ **Tuning** button selects the digital radio service, see page 6
- ⑨ **Display** button changes the main display mode, see page 6
- ⑩ **Backlit LCD display**
- ⑪ **Remote** LED indicates remote control activity
- ⑫ **Secondary** LED indicates whether secondary services are available, see page 9
- ⑬ **Tone** control, adjusts bass/treble level
- ⑭ **POWER** on/off switch
- ⑮ **FUSE** holder
- ⑯ **Mains socket** for mains lead

# Using your Digital Radio

This section provides information on using your digital radio including tuning, selecting a service, adjusting the volume and tone levels and altering the displayed information.

## Switching on and off

Before switching on for the first time, check that you have attached the aerial and power lead as described on page 3, switched the power on at the wall outlet and ensured that the volume control is turned down.

Note that if you leave the unit switched off for an extended period (around two weeks or longer) you may need to re-tune the unit to refresh the available services.

Push the power switch on the side of your digital radio to the **I** (on) position to switch the unit on. The LCD screen will light up when the unit is switched on.

You should now perform the tuning operation described below.

## Tuning

Tuning your digital radio is very simple. In most cases you only need to perform this operation once, when you first set up the unit. The tuning facility has two modes:

**Rapid** - scans frequencies in the UK channel allocation. This should take around 45 seconds.

**Full** - scans the full range of digital frequencies in Band III. This may take several minutes.

All UK digital radio services currently available in your area will be found using the rapid mode.

1. Ensure your digital radio is switched on and your aerial is connected and extended. Ideally, position the unit near a window and away from other electrical items during tuning.
2. Push and release the **Autotune** button on the top of your digital radio once for rapid mode and twice for full mode.

**Note** You can cancel Autotune by pushing the **Autotune** button a third time.

The display will indicate tuning is underway. When finished, the name of the first service found will be shown on the top line of the display and you should hear it through the speakers. All the services found are now stored in the unit and you can select a service as described below.

**Note** Like FM radio reception, DAB radio signals can be affected by walls, metal structures and other electrical items. If no services are found the display will show the message NO ENSEMBLES. Check your aerial connection and positioning, try moving the unit near a window and attempt the tuning process again.

You may want to repeat this procedure in the future if you move house, change your unit or aerial position or if you want to receive a newly introduced service.

**Note** If reception is poor, check the signal strength and try repositioning the unit or aerial using the signal strength indicator as described on page 7.

## Selecting a service

Once you have tuned your digital radio as explained above you can select the digital radio service you want to listen to. You use the large turn-and-push button to select a service.

1. Rotate the large tuning button to see the names of other stored services on the bottom line of the display. Stop when you find the service you want to listen to.
2. Push and release the large tuning button to listen to the service you have selected.

If the service you select is in stereo, the Stereo LED will light up. If the service you select has one or more secondary services available, the Secondary LED will light up.

See page 9 for details on selecting primary or secondary services.

## Adjusting the volume and tone

Once you have tuned your digital radio as explained above you can adjust the volume and tone to your preferred levels. You use the **Volume** and **Tone** controls to adjust these levels.

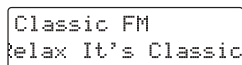
1. Adjust the volume to the required level using the volume control.
2. Adjust the tone from low (more bass) to high (more treble) to suit the service.

## Changing the display mode

Your digital radio display has four modes which enable you to view different elements of the broadcast data on the bottom line of the display.

Press the **Display** button on the top panel of your digital radio and repeat or hold down to cycle through the four different display modes.

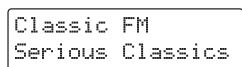
### Scrolling text



```
Classic FM
Relax It's Classic
```

The default mode, displays scrolling text messages which accompany the audio, where available.

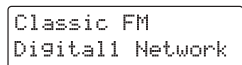
### Program type



```
Classic FM
Serious Classics
```

A label describing the type of content being broadcast by the service.

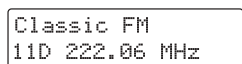
### Multiplex name



```
Classic FM
Digital1 Network
```

Displays the name of the multiplex in which the current service is found.

### Technical information



```
Classic FM
11D 222.06 MHz
```

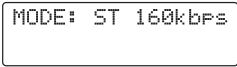
Displays the channel label and centre frequency for the current multiplex.

# Viewing extra information

Your digital radio has two information modes which enable you to view extra information about the current service.

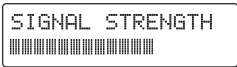
Press the **Info** button on the top panel and repeat or hold down to cycle through the two different information modes. Press the Display button to return to normal display mode.

Mode



Displays the mode of the current service, Stereo (ST) or Mono (MN) and the data rate at which the audio signal is being transmitted. This rate is set by the broadcaster to suit the type and quality of material being transmitted.

Signal strength



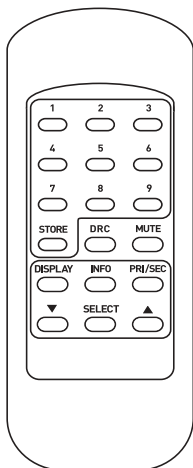
Displays the strength of the signal for the current multiplex. Maximum strength is indicated by 16 bars across the display. **Note** If sound quality is poor, try repositioning your unit or aerial whilst observing the signal strength indicator, you may be able to increase reception quality.

# Changing the display brightness

Your digital radio has four levels of brightness which you can alter to suit your room's light levels.

Press the **Brightness** button on the top panel and repeat or hold down to cycle through the four levels of brightness available.

# Using the remote control



The infrared remote control provides access to the main functions of your digital radio and also advanced facilities such as presets and dynamic range control. Before using your remote, insert the supplied batteries. Aim the remote control at the sensor on the top panel.

## Preset buttons

The numbered buttons (**1-9**) and the **STORE** button enable you to store your favourite radio services for one-touch access.

### To store a service

While listening to the service you want to store.

1. Press the **STORE** button.  
The display shows **1-9?**
2. Press a numbered button to store the service under that number.

### To recall a previously stored channel

Press the numbered button under which you stored the service.

## DRC button

The **DRC** Dynamic Range Control button enables you to alter the dynamic range of the received audio (dependent on broadcast material) by making the quieter sounds in a broadcast more audible. This may be useful in noisy environments or particularly quiet parts of programmes.

Press the **DRC** button to check whether DRC is available for the current service then press the **DRC** button again to toggle DRC on or off. The default setting is off.

## MUTE button

The **MUTE** button is a quick way of reducing the output volume.

1. Press the **MUTE** button to mute the sound.  
The display shows **MUTE**.
2. Press any key on the remote control or main unit to remove the mute and return to the previous listening volume.

## DISPLAY button

The **DISPLAY** button enables you to change the display mode. This button performs the same function as the **Display** button the main unit. See page 6 for details.

Press the **DISPLAY** button and repeat or hold down to cycle through the four display options.

## **INFO button**

The **INFO** button enables you to change the information mode. This button performs the same function as the **Info** button on the main unit. See page 7 for details.

Press the **INFO** button and repeat or hold down to cycle through the two information modes.

## **PRI/SEC button**

The **PRI/SEC** button enables you to select between the primary and secondary services where secondary services are available. If a secondary service is available for the current service, the Secondary LED will light up. Press the **PRI/SEC** button and repeat or hold down to cycle through the available services.

## **Service select buttons**

The ▼▲ and **SELECT** buttons enable you to scroll through and select services. Together, these buttons perform the same function as the large tuning knob.

1. Press and release or hold down the ▼ or ▲ button to scroll through the stored services.
2. The bottom line of the display shows the service names.
3. Press the **SELECT** button to select and listen to the displayed service.

# Troubleshooting

This section gives solutions to some of the most likely problems you might have with your digital radio.

## **I can't get any sound**

Ensure that your digital radio is plugged in, switched on and that you have connected and extended the aerial as explained on page 3.

Check that the volume is not set too low or that you have selected MUTE on the remote control.

Ensure that you have completed the Autotune procedure as explained on page 5.

## **Remote control not functioning**

Check that you have inserted the batteries correctly and that you are not too far away from the main unit (not more than 7 metres recommended).

Check that the remote sensor on the main unit is not obscured.

Check if the Remote indicator LED lights up indicating that the remote signal is being received.

## **Display says 'No Service Check Setup'**

Check that your aerial is connected and extended properly and try positioning the unit nearer to a window.

Use the Autotune facility to search for services. Try using the Full search as explained on page 5.

## **I can't access secondary services**

At the time of publishing not many secondary services are available. If secondary services are available for the currently selected service the Secondary indicator LED will light up. You use the remote control to select secondary services, see page 9 for details.

## **Display says 'Memory Reset Presets Lost'**

This may occur if the unit has been switched off for an extended period of time (longer than two weeks). Use the Autotune feature as described on page 5 to refresh your stored services if necessary. You can then re-enter your presets using the remote control, as described on page 8.

## **Display has gone blank**

This may occur if a broadcaster changes the label of a service or removes a label whilst you are listening to it. As the display is constantly updated it therefore may go blank. Follow the Autotune procedure, on page 5, to restore all available services to your unit.

## **I can't hear the station I have selected on the display**

To hear the station you need to confirm your selection by pressing the large tuning knob, as described on page 6.

## **I hear a 'burbling' sound on some stations**

Although DAB is excellent at providing quality audio from very little signal, the quality can suffer if the signal strength is too low. If that happens, a 'burbling' sound can sometimes be heard.

Positioning your unit nearer to a window or adjusting the aerial position may reduce this.

# Technical Specifications

This section lists the technical specifications for your digital radio.

<b>General</b>	Stereo digital radio with full Band III reception capability, for reception of all UK DAB broadcasts. Fully compliant with ETS 300 401 and capable of decoding all DAB transmission modes 1-4.
<b>Speakers</b>	Two 3", 5W 8 $\Omega$ speakers.
<b>Frequency Range</b>	Band III (174 - 240 MHz), with fast Autotune feature
<b>Tuner Sensitivity</b>	-98 dBm
<b>Integrated DAC</b>	24-bit 96 kHz stereo DAC
<b>Input connectors</b>	RF F-connector 75 $\Omega$ for DAB aerial connection (aerial supplied)
<b>Controls</b>	Power on/off (side panel) Rotary selection switch - selects service Autotune - tunes in unit to broadcast services Brightness - selects between 4 levels of LCD display brightness Display - selects between DLS (Dynamic Label Segment) scrolling text, programme type, and service information Info - switches LCD between display of signal strength indicator and mono/stereo mode plus service's data rate Tone - controls bass/treble levels Volume - controls output volume
<b>LCD Display</b>	High visibility STN LCD display with 16 x 2 characters and 4 user-selectable brightness levels
<b>Indicators</b>	Remote control activity indicator Stereo service indicator Secondary service availability indicator
<b>Remote control</b>	Infrared remote control functions: service select, preset service store/recall, DRC (dynamic range control), mute and primary or secondary information display
<b>Power supply</b>	High-performance low noise internal toroidal transformer power supply. 230V AC 50Hz. Integral main fuse holder on side of unit.
<b>Approvals</b>	CE marked. Compliant with the EMC and Low Voltage Directives (89/336/EEC and 73/23/EEC)
<b>Dimensions</b>	281mm (width) x 216mm (height) x 93mm (depth)

# Getting Help

The Troubleshooting section of this manual, on page 10, lists some of the more likely reasons for problems you might have with your digital radio. If you still have a problem, either visit our website at [www.videologic.com](http://www.videologic.com) or contact us using the details below for the latest support information.

## **VideoLogic Systems,**

Imagination Technologies Ltd,

Home Park Estate,

Kings Langley,

Herts., WD4 8LZ, UK

01923 277477

01923 270188

[support@videologic.com](mailto:support@videologic.com)

telephone

fax

e-mail

# Useful addresses

The following addresses provide additional useful information about digital radio including coverage, available services and usage tips:

## **Digital Radio Development Bureau**

The Radiocentre

77 Shaftesbury Avenue

LONDON

W1D 5DU

Tel: 020 7306 2630

E-mail: [info@drdb.org](mailto:info@drdb.org)

Web: [www.drdb.org](http://www.drdb.org)

## **Digital One**

20 Southampton Street

LONDON

WC2E 7QH

Tel: 020 7288 4600

E-mail: [info@digitalone.co.uk](mailto:info@digitalone.co.uk)

Web: [www.ukdigitalradio.com](http://www.ukdigitalradio.com)

## **BBC Digital Radio**

Room 5661

Broadcasting House

Portland Place

LONDON

W1A 1AA

Tel: 08700 100 123

E-mail: [digitalradio@bbc.co.uk](mailto:digitalradio@bbc.co.uk)

Web: [www.bbc.co.uk/digitalradio](http://www.bbc.co.uk/digitalradio)



# PURE

by VideoLogic

**Please return your registration card to the following address to validate your warranty.**

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