MAGICBOX™

Touch DAB Radio
DAB/FM Portable Stereo Radio

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WELCOME

Introducing the Touch DAB Radio from Magicbox

Your Touch DAB Radio is a combined DAB & FM stereo radio utilising the latest touch panel technology with a quick and easy set up and clear information display. It has the following features:

* Clear digital stereo sound

* Wide choice of National and Local DAB radio stations

* Clear, backlit display

* DAB station selection is by 'Name', not by 'Frequency'

* Automatic scanning to find DAB and FM stations

* No need to re-tune National DAB stations

* 10 DAB and 10 FM radio station presets

* Receives FM radio with RDS information (where available)

* Very easy to set up and use

* Headphone, line in and line out sockets

* Battery or mains power

What's in the box?

1 x Touch DAB Radio

1 x Mains adaptor

1 x User Manual

What is DAB Digital Radio?

DAB means Digital Audio Broadcasting. The difference between a DAB radio and a conventional AM/FM radio is that broadcasts are transmitted digitally resulting in a high quality audio sound*, without any hiss, fading or crackles.

Your DAB radio will automatically scan and find all the available stations for you. Each station name, together with other helpful broadcast information is shown on the display; all you need to do is scroll through the station names and select the one that you would like to listen to, so it's very easy and quick to use.

For more information about DAB services and to find a list of stations available in your area visit www.digitalradionow.com.

* Please note that the sound quality is dependent on a strong signal strength. Signal strength can vary from area to area. To check the signal strength in your area visit www.digitalradionow.com

PRODUCT SET UP

Where to put your radio

It is important that you consider carefully in advance where your radio will be situated and make sure that it is:

* on a flat and stable surface

* within 2 metres of a power socket (if using mains power)

* where you can fully extend the telescopic aerial

* away from bright sunlight or heat sources, such as a radiator

* not in a humid or very damp place such as a bathroom

Setting up

Step 1: Connect the mains power lead into the socket on the bottom left of the back of the radio and plug the power adaptor into the mains power wall socket and switch on.

Step 2: Fully extend the radio aerial in a vertical position to obtain the maximum signal strength

Step 3: When switching on for the first time, press the power switch on the bottom left of the back of the radio, to the left of the mains power lead plug. The display will switch on and the clock will be displayed.

Step 4: Touch the '**Standby**' button on the front of the radio to the far left of the display.

Step 5: Your Touch DAB will display 'Welcome to DAB' and automatically begin to scan for DAB radio stations. A progress bar will show the progress of the scan and the number of stations found during the scan will also be displayed.

When the scan is complete your radio will select the first available station and begin to play.   Stations are listed in numerical and then alphabetical order by default.

Note: The DAB radio station list is stored in the memory and so the next time you switch your radio on, the station search does not take place. It is possible to scan manually for stations. Please see page 8.

Step 6: Inserting the batteries (optional). Before installing the batteries (not included) please ensure that the DAB Radio is unplugged from the mains power supply.

On the back of the radio, press in and push down on the two ribbed areas to remove the battery cover. Insert 6 x 1.5V C-size batteries, making sure to note the '+' and '-' markings and position the batteries the correct way around. Replace the battery cover, making sure it 'clicks' shut.

If used continuously on battery power, your Touch DAB has an approximate battery life of 5 hours when using good quality batteries.

Note: For battery operation, please switch off the mains adaptor and remove the mains power plug from the back of the radio.

YOUR TOUCH DAB RADIO

Scan

Standby

Touch panel

DAB/FM presets

Shift

Aux in socket

Backlit display

MAGICBOX
TOUCH DAB RADIO

digital radio

DAB.FM.AUX mode

Menu

Display mode

Volume up/down

Scroll left/right

Select

Headphone socket

Stereo speakers

YOUR TOUCH DAB RADIO

Aerial

Power on/off
button

Mains power
socket

Aux out (left)

Aux out (right)

Battery
compartment

USING YOUR DAB RADIO

Switch on

Press the power switch on the bottom left of the back of the radio, to the left of the mains power lead plug. The display will switch on and the clock will be displayed.

Touch the '**Standby**' button on the front of the radio to the far left of the display.

Your Touch DAB will return to the mode that it was last used in (DAB.FM.AUX). If you were listening to a DAB station before then this station will be automatically selected.

Note: Always make sure that the aerial is fully extended and adjusted (a vertical position is recommended), to ensure the maximum signal strength and the best possible sound quality.

Switch off

Touch the '**Standby**' button on the front of the radio to the far left of the display.   The clock will be displayed.

Press the power switch on the bottom left of the back of the radio, to the left of the mains power lead plug to completely switch off the radio and display, this will also stop any batteries, if fitted, from going flat.

Adjusting the volume

Touch the '**VOL +**' to increase the volume and the '**VOL -**' to decrease the volume.   Touch and hold the '**VOL +**' or '**VOL -**' to progressively increase or decrease the volume.

Changing DAB stations

1.   If you are not already in DAB mode, touch the '**DAB.FM.AUX**' button to go to DAB mode.

2.   Touch the ◄ or ► key to scroll through the stations. The stations are listed in numerical and then alphabetical order.

3.   When the station that you would like to listen to is displayed touch the '**SELECT**' button. '**Now tuning...**' will be displayed whilst your DAB radio tunes to your selected station.

Scanning for DAB stations

With DAB radio, additional stations and services regularly become available so it's a good idea to carry out a manual scan every now and then to make sure that you have the most up to date station listing stored within the memory of your radio. If you have moved your radio to another location, eg: if you go on holiday, then it's also a good idea to carry out a manual scan.

1. If you are not already in DAB mode, touch the '**DAB.FM.AUX**' button to go to DAB mode.

2. Touch the '**SCAN**' button to begin a local search for stations. The display will change to '**Scanning...**' and the number of stations found during the scan will be displayed. A local scan takes approximately 10 seconds.

3. If you are using your DAB radio outside of the UK, then touch and hold the '**SCAN**' button for 2 seconds to begin a wider, national and local scan. A national and local scan takes approximately 1 minute but can take up to 3 minutes.

Station Display Symbols

You may see the following symbols displayed alongside a station name.

♥   one of your 10 favourite stations

?   station is not available/not active. This could be used if you try to tune into a secondary service/station at a time when it is not transmitting.

➡   after the station name, this is a primary station with secondary services eg: a sports station may add extra commentaries at certain times of the day

⬅   before the station name, this is a secondary station

Storing a DAB station preset

Your Touch DAB radio can store up to 10 DAB stations in its preset memories for instant access to your favourites stations (5 one-touch and 5 two-touch).

Note: When you store DAB radio station presets, these do not overwrite your FM station presets.

1. Tune your radio to the station that you wish to preset (see changing DAB stations, page 8).

2. Touch and hold the one-touch 1-5 preset button that you would like to store the radio station to. The display will confirm '**Preset X saved**', 'X' is the number of the preset (1-5).

To save to a two-touch preset (6-10):

1. Tune your radio to the station that you wish to preset (see changing DAB stations, page 8).

2. Touch the '**SHIFT**' button, '**SHIFT KEY ON**' will be displayed, then touch and hold the two-touch 6-10 preset button that you would like to store the radio station to. The display will confirm '**Preset X saved**', 'X' is the number of the preset (6-10).

Note: If there is already an existing DAB station stored under a preset, it will be overwritten when you store the new station.

Tune to a DAB preset station

In DAB mode:

1. For one-touch presets 1-5, just touch the preset number and the radio will instantly tune to that station and begin to play.

2. For two-touch presets 6-10, touch the '**SHIFT**' button and then just touch the preset number. The radio will instantly tune to that station and begin to play.

   Note: If no DAB station has been stored under the preset, the display will change to '**Empty preset**' and then revert to the previously selected station after a few seconds.

DAB display information

When listening to a DAB station you can change the information that will appear on the second line of the display. There are seven different types of information that are sent by the broadcaster.

Dynamic Label Segment (DLS) - this is scrolling text information supplied by the broadcaster. Information could be the name of an artist or music title, DJ's name, contact details for the radio station etc.

Program Type (PTY) - such as 'Rock', 'Pop', 'Talk' or 'News'

Multiplex Name - displays the broadcasting area and collection of radio stations on this frequency eg: BBC National DAB, Digital 1 Network.

Time and Date - supplied by the broadcaster.

Channel and Frequency - eg: 12B 225.64 MHz

Signal Information - Stereo or Mono and the data rate at which the signal is being transmitted.

Signal Error - The information provided gives details of the signal error rate, shown as a number between 0 - 99.
It will not be possible to satisfactorily listen to a radio station with a signal error rate of 30 or above. Try adjusting the aerial or relocating your radio to improve reception.

1. Touch the '**DISPLAY**' button repeatedly to move through the display options.

Using Headphones

You can connect headphones (not included) to your Touch DAB radio. The headphone socket can be found on the right hand side of the radio and when you have headphones connected the radio speakers are switched off and all sound is via the headphones.

Note: Headphones will need a 3.5mm stereo plug and an impedance of 8-32 ohms.

MENU OPTIONS

Using the Menu

The '**MENU**' button enables you to change some of the default settings of your Touch DAB Radio, so that it works just the way you want it to.

In DAB mode:

Station order

There are four different station order options to choose from which change the way that your DAB radio stations are displayed:

Fav station - your radio monitors the stations that you listen to most often and will compile a list of the top ten. The more hours that you listen to a particular station, the higher up the list of your top ten it will become. When you select this option your ten favourite stations will appear at the top of the DAB station list. Your ten favourite stations will be displayed with a ♥ symbol next to them.

Alphanumeric - the stations are listed in numerical and then alphabetical order. This is the default setting.

Active station - the stations that can be received in your area will be reordered to the top of the DAB station list and those that you cannot receive will be at the bottom, prefixed by a '**?**'.

Prune stations - stations that cannot be received in your area, all those that would be marked with a '**?**', are removed from your DAB station list.

An additional feature available on your Touch DAB is:

♥ -> presets - your favourite top ten stations (**Fav station)** will be saved under the 10 preset memories. Please note that this will overwrite any previously stored DAB station presets.

To change your station order:

1. Touch the '**MENU**' button.

2. Check that '**Station order'** is displayed and touch '**SELECT**'.

3. Use the ◄ or ► key to scroll through the four options and touch '**SELECT**' to confirm.

Manual tune

Using the manual tune feature, you can select a specific digital radio channel frequency and then manually adjust the aerial, or the location of the radio, to get the strongest possible signal for that channel in your location.

1. Touch the '**MENU**' button.

2. Use the ◀ or ▶ key to display '**Manual tune'** and touch '**SELECT**'.

3. Use the ◀ or ▶ key to scroll through the digital radio frequencies and touch '**SELECT**'.

   An empty ☐ will appear on the first line of the display to indicate the minimum signal strength for acceptable listening. The row of solid rectangles indicate the actual signal strength that you are receiving. The stronger the signal, the further to the right the row of solid rectangles will be.

   Note: If only an empty ☐ is displayed, you are not receiving any signal at all for that particular digital radio channel in your area.

4. Adjust the position of the aerial on the radio, to obtain the maximum signal strength and touch '**SELECT**' to exit back.

Autoscan

With DAB radio, even national stations such as the BBC, are all broadcast locally. If you move your DAB radio to another location, you should perform a DAB scan to pick up all the stations broadcast in that area. Additional stations and services regularly become available so it's a good idea to carry out an autoscan every now and then to make sure that you have the most up to date station listing stored within the memory of your radio.

1. Briefly touch the '**SCAN**' button for a local scan, '**Autoscan local**' will be displayed or

   Touch and hold the '**SCAN**' button for a full scan, '**Autoscan full**' will be displayed.

   Note: A local station scan takes approximately 10 seconds and a full national scan takes approximately 60 seconds.

Dynamic range control

The dynamic range for each radio programme is set by the broadcaster for each radio station and may be different for the types of programme broadcast, such as pop or classical music or a chat show. The dynamic range control signal is transmitted in parallel with the audio signal for each programme and with your Touch DAB radio you can use this control signal to expand or compress the dynamic range (the difference between the loudest and quietest sounds) of the reproduced audio signal. Changing the dynamic range can affect the 'loudness' and/or 'quality of sound' of the programme that you hear so that it will be more suited to your listening conditions and your own personal listening requirements. e.g. in a noisy environment, where quiet sounds might be swamped, setting the compression to maximum will 'boost' the quiet sounds, whilst keeping the loudest sounds at their original level.

There are 3 levels of compression:

DRC 0 - no compression. This is the default setting.

DRC 1 - maximum compression.

DRC $^1/_2$ - medium compression.

1. Touch the '**MENU**' button.

2. Use the ◄ or ► key to display '**DRC value**' and touch '**SELECT**'. The current DRC value will appear on line 1 of the display.

3. Use the ◄ or ► key to scroll through the 3 levels of compression, which will appear on line 2 of the display.

4. Touch '**SELECT**' to confirm your compression setting.

Software version

If you call the helpdesk you may be asked for the software version of your radio.

1. Touch the '**MENU**' button.

2. Use the ◄ or ► key to display '**Sw version**' and note the letters and digits exactly as they appear on line 1 of the display.

    Note: In FM mode, just a brief touch of the '**MENU**' button will display the software version as above.

USING THE FM RADIO

FM Radio Mode

Check that your radio is in FM mode. You will see '**FM**' to the far right of line 1 of the display together with a radio frequency eg: 89.60MHz.

When your radio is in FM mode it can receive Radio Data System or 'RDS' information if this is being transmitted by the broadcaster. RDS information will often include the station name, detail about the programme and the current time.

If you were listening to an FM station when you switched the radio off then this station will be automatically selected when you switch the radio back on. If you are receiving the FM station in Stereo, then '**St.**' will be displayed.

Tuning to an FM station

1. If you are not already in FM mode, touch the '**DAB.FM.AUX**' button to go to FM mode.

2. Touch the '**SCAN**' button. The Radio will scan until it finds the next station where it will stop and show the frequency, or RDS information, if it is available.

Note: With FM radio it may be necessary to 'fine tune' each station by briefly touching the ◀ or ▶ key. If reception is still poor adjust the position of the aerial or try moving the radio to another location.

Storing an FM station preset

Your Touch DAB radio can also store up to 10 FM station presets for instant access to your favourites stations (5 one-touch and 5 two-touch).

Note: When you store FM radio station presets, these do not overwrite your DAB station presets.

1. Tune your radio to the station that you wish to preset (see 'Tuning to an FM station' on this page).

2. Touch and hold the one-touch 1-5 preset button that you would like to store the radio station to. The display will confirm '**Preset X saved**', 'X' is the number of the preset (1-5).

   To save to a two-touch preset (6-10):

1. Tune your radio to the station that you wish to preset (see 'Tuning to an FM station' on this page).

2. Touch the '**SHIFT**' button, '**SHIFT KEY ON**' will be displayed, then touch and hold the two-touch 6-10 preset button that you would like to store the radio station to. The display will confirm '**Preset X saved**', 'X' is the number of the preset (6-10).

   Note: If there is already an existing FM station stored under a preset, it will be overwritten when you store the new station.

Tune to an FM preset station

In FM mode:

1. For one-touch presets 1-5, just touch the preset number and the radio will instantly tune to that station and begin to play.

2. For two-touch presets 6-10, touch the '**SHIFT**' button and then just touch the preset number. The radio will instantly tune to that station and begin to play.

   Note: If no FM station has been stored under the preset, the display will change to '**Empty preset**' and then revert to the previously selected station after a few seconds.

Reset your radio

You can reset your radio and restore all of the original factory settings.

Note: If you reset your radio all of your DAB and FM station presets will be deleted.

1. Touch and hold the '**MENU**' button. The display will change to 'Press '**SELECT**' to confirm reset'. If you decide not to reset your radio at this point, just wait a few seconds and your radio will return to its previous mode and station.

2. Touch the '**SELECT**' button to return the radio to its original factory settings. After a few seconds the display will change to 'Welcome to DAB' and will begin scanning for stations.

USING AUX IN & AUX OUT

AUX mode

The Touch DAB radio has two audio auxiliary inputs:

- Two phono Aux out sockets (Left and Right channel) on the rear.

- One 3.5mm stereo Aux in socket on the left hand side.

AUX out

Two Aux out Phono sockets are provided on the rear of the Touch DAB Radio which provide a left and right stereo audio output signal for connection to an external amplifier and speaker system.

Using a suitable cable please connect the Touch DAB radio Aux out Phono connectors to the Line in or Aux in on the external amplifier.

Please ensure you select Line in or Aux in as the 'source' on the external audio device.

The external audio device will now receive a signal from your Touch DAB and be able to play the signal from your Touch DAB.

Note: The level from the Aux out sockets is fixed and cannot be adjusted using the Vol + or Vol – buttons on the Touch DAB, you should use the volume control on the external amplifier to do this.

AUX in

By selecting AUX on the Touch DAB radio DAB.FM.AUX mode control, the radio will play the signal that is connected to the 3.5mm Aux in socket on the left hand end of the radio.

Using a suitable cable connect the Line out or Aux out from an external source, e.g. a CD player to the 3.5mm Aux in connector on the left hand end of the Touch DAB radio.

Select AUX on the Touch DAB radio by touching the DAB.FM.AUX button until Aux is selected.

The Touch DAB radio will now play the external signal through its speakers. The volume level can be controlled by adjusting the Touch DAB radio volume control.

Technical specification

Power adaptor: Output DC-9V. Input 230V/50Hz

Batteries: 6 x LR14 (Size C) batteries or equivalent
(not included).

Frequency range:

DAB   Band III, 174 MHz to 240 MHz

FM   87.5 MHz to 108 MHz

Aux Input: Stereo socket 3.5mm diameter

Aux Output: Output impedance 1K ohm
Typical output level 300mV

Headphone: Stereo socket 3.5mm diameter

SIMPLE SOLUTIONS

If you are experiencing problems with your Touch DAB radio there are some quick and easy checks that you can do, which may help to solve the problem.

Radio reception is poor

- Please check that the aerial is FULLY extended for the maximum signal strength and improved reception.

- Use the manual tune (see page 11), to adjust your aerial for the best reception.

- Try moving your radio to an alternative location to see if the reception improves. Please remember to scan for DAB stations again once you have moved your radio. See page 8.

- Check that you do not have other electrical equipment too close to your radio, causing interference.

- Visit www.digitalradionow.com for information about DAB reception in your area.

No sound

- Adjust the volume using the '**VOL+**' button.

- You have headphones connected. Please remove or use the headphones to listen to the radio.

- Please check that the mains power lead is connected at the back of the radio and the mains power wall socket is switched on.

- You may need to re-scan if the station you last listened to is no longer available. See page 8.

The function buttons do not respond

- Check that the power lead is plugged into the back of the radio and that the mains adaptor is plugged in and switched on. If you are using batteries, they may be exhausted and need to be replaced. Press the 'Power on' button on the back of the radio.

- Turn off the radio, unplug the mains power and remove the batteries. Leave for 1 minute and then reconnect your radio.

- Try a reset to factory defaults. See page 15.

If you are still experiencing any difficulty after making the above checks, please call the helpdesk for further assistance.

Helpdesk

The helpdesk is open from 8.30am to 5.00pm, Monday to Friday (excluding Bank Holidays) and can be contacted on **0845 833 1673** (local rate call charge applies).

GENERAL INFORMATION

Care and Maintenance

Your Touch DAB radio is of superior design and manufacture and should be treated with care. The suggestions below will help you to enjoy this product and the benefits it brings for many years.

- Keep the product and all its parts out of reach of small children.

- Keep it dry. Avoid exposure to precipitation, humidity and liquids which could all affect the product circuitry.

- Do not leave it in high temperatures as electronic devices and plastic parts may warp in heat.

- Do not leave it in low temperatures as moisture can form inside the product, which may damage the circuit board.

- Do not store in dusty or dirty areas.

- Do not use harsh chemicals, cleaning solvents or detergents to clean the product. Wipe with a damp (not wet) soft cloth to clean.

- Do not attempt to open the product. Unauthorised handling of the device may damage it and will void your warranty.

- Only use the power supply that came with the product. Using an unauthorised power supply will invalidate your guarantee and may irrecoverably damage the radio.

Product guarantee

This product has a warranty of 12 months and is therefore guaranteed to be free from defects in materials and workmanship during that period. If you experience a problem within that time, simply call the Helpdesk on 0845 833 1673 (local rate call charge applies).

If your problem cannot be solved by our Helpdesk, you will need to return your product to the place it was purchased. Remember to take your receipt as proof of purchase as it must be produced before the warranty can be honoured.

This product must have been used only for the intended purpose and not been subjected to wilful or accidental damage.

This warranty does not cover damage caused by excessive voltage or lightning.

If this product has been tampered with in any way, the warranty shall be considered null and void.

This guarantee does not affect your statutory rights.

WEEE DIRECTIVE

WEEE Directive – Directive 2002/96/EC of the European Parliament and Council of 27th January 2003 on waste electrical and electronic equipment.

At the end of the product's lifecycle, you should not throw this product into the normal household waste but take it to a collection point for the recycling of electrical and electronic equipment. The 'WEEE' symbol below, on the product, user manual and packaging indicate this.

Please contact your local authority if you need more information about the collection points in your area.

For more information telephone Envirowise on 0800 585794

MAGICBOX™

Helpline

0845 833 1673

(local call rate)

C€ ♻ ROHS
COMPLIANT

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