

AZATOM® Blackfriars DAB Speaker

DAB+ / Calender / Clock / Alarm Clock / FM Radio / AUX-In



User Manual

This manual is available to download online at www.azatom.com

Thank you for shopping with **AZATOM®** Please read this manual carefully before using your new device and keep it safe for future reference.

AZATOM® is a British company specialising in advanced audio products. All our products are developed by our In-house Team of British Designers.

We are experts in sound engineering and great care and attention goes into the design and manufacture of every Azatom product to ensure class-leading performance and quality.

Please read the manual thoroughly before operating the device.

Choose a suitable location for the device. Suitable locations are dry, even and anti-slip surfaces on which you may operate the device easily.

Make sure there is proper ventilation for the device. Remove, if necessary, the protection sheet from the display.

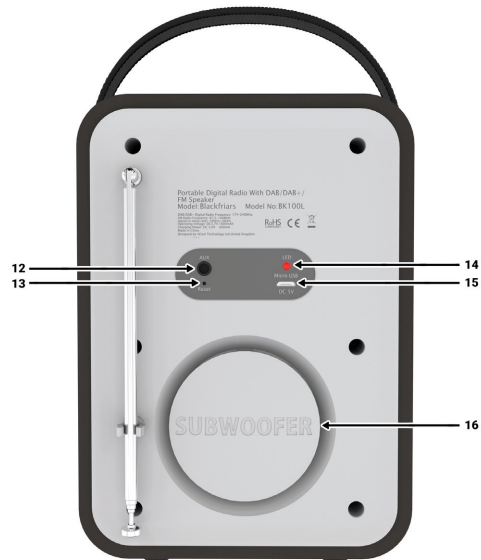
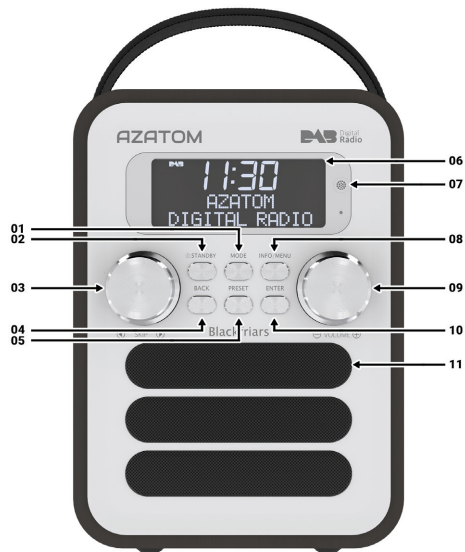
This DAB Radio was designed to travel and come with you on your adventures, all while delivering high quality audio.

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Controls & Interface

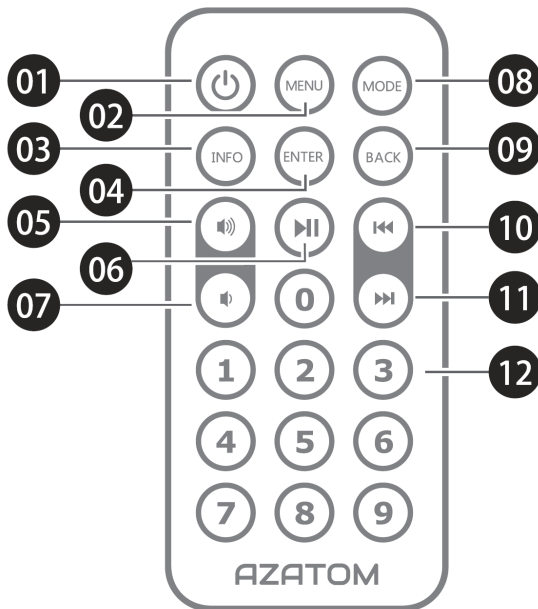
- 1 **MODE**
- 2 **STANDBY**
- 3 **SKIP- / SKIP+**
- 4 **BACK**
- 5 **PRESET**
- 6 **LCD DISPLAY**
- 7 **INFRARED REMOTE CONTROL RECEIVER WINDOW**
- 8 **INFO / MENU**
- 9 **VOLUME - / VOLUME +**
- 10 **ENTER**
- 11 **SPEAKER**
- 12 **AUX PORT**
- 13 **RESET BUTTON**
- 14 **CHARGE INDICATOR**
- 15 **DC 5V CHARGE IN**
- 16 **SUB-WOOFER**



Control Button Functions

Control	Function/usage
Standby	Toggle between 'On' or 'Standby' mode (showing clock and date). Cancels sleep function and a sounding alarm. When running from battery only – Turns the Unit off.
Volume / Mute	Turn to adjust volume, Press to mute on/off
SKIP-/SKIP+/	Turn to cycle SKIP- and SKIP+ through menus and options.
ENTER	Press to ENTER current option. DAB and FM mode automatic search station . Menus--enter button
MODE	Cycle through the audio source modes: DAB/FM/Aux in.
INFO/MENU	Short press: Cycle through further information screens and return to the normal now playing screen. Press and hold to return immediately to the normal Now playing screen. Long press: Show menu for the current mode. Press again to show now playing screen.
PRESET	Short press for preset station selection (SKIP-/SKIP+ button control to choose and select specific preset). Long press to enter preset station (SKIP-/SKIP+ button control to choose and select preset store). In AUX in mode, short press or long press PRESET have no effect
BACK	Return to parent menu level

Remote Control Button Functions



- 1 **STANDBY**
- 2 **MENU**
- 3 **INFO**
- 4 **ENTER** - Use this to switch FM & DAB modes
- 5 **Volume +**
- 6 **PLAY / PAUSE**
- 7 **VOLUME -**
- 8 **MODE: Cycle audio sources**
- 9 **BACK**
- 10 **SKIP -**
- 11 **SKIP +**
- 12 **0 - 9: These are used for preset stations.**
A short press selects the preset, a Long press sets the current station to that preset number

Specification

01. DAB/DAB+ Digital radio frequency: 17 4.928-239.200MHz
02. FM radio Frequency: 87.5-108MHz
03. Large signal handling capacity: 0dBm
04. Sensitivity: -98dBm
05. Adjacent channel Rejection: 40dB
06. Total power output: RMS 3W (THD+N=10%.f0=1 KHz)
07. Distortion: <7%
08. Signal to noise ratio: >70dBA
09. Frequency response: 100Hz-18KHz
10. Work Voltage: DC 3.7V 1800mAh
11. Charge power: DC 5V 600mA
12. Working time: 4-6 hours
13. Charging time: 6-8 hours

System Settings

The system settings allow you to tailor the radio with a variety of options to suit you. To access the system settings from any mode, Select **MENU** -> **System** -> Then select from the multiple options.

The system setting menu options are:

- Sleep
- Alarm
- Equaliser
- Time
- Backlight
- Language
- Factory Reset

Turn the **SKIP-** / **SKIP+** button to cycle through the menu / sub-menu pressing **ENTER** to select the highlighted option. Use the **BACK** button to return to the previous menu.

Time

The time and date can be updated manually or automatically. With auto-update, the time and date are automatically synchronised with national time signals broadcast over DAB and FM (when available). You can also select the display format for the time and date.

The Time menu contains the following options:

- Set Time/Date: *(see below)*
- Auto update: **Update from Any** | **Update from DAB** | **Update from FM** | **No Update**
- Set 12/24 hour: **12** | **24**
- Set date format: **dd-mm-yyyy** | **mm-dd-yyyy**.

Set time/date:

This option is for manually setting the time and date displayed. The time displays as hh:mm **AM/PM**, with the first value, hh, active (*flashing*). Adjust each value using the **SKIP-** / **SKIP+** button control and press **ENTER** to confirm. The next value then becomes active and flashes. The date values follow and are set in the same way.

Note: The date displays as **dd-mm-yyyy** or **mm-dd-yyyy** depending on your choice of date format

Alarm & Sleep

As well as a clock/calendar, there are four versatile wake-up alarms with snooze facility, and a sleep function to turn the system off after a set period of time. The alarm sound for each alarm can use a buzzer or a selection from the audio sources .

1. Alarms

(To access alarms, Press and hold the MENU button, then using the SKIP + / SKIP - as arrow keys and ENTER to select, Choose SYSTEM then ALARM)

Note: Alarms will only function when the unit is On (mains or battery power) or in Standby mode (Mains power only). Attempting to enter Standby mode when powered only by battery will turn the unit Off.

An active alarm is indicated by its icon in the top line of the display.

Note: Alarms can be switched on or off in standby mode (see below), however, the alarm parameters can only be set when the radio is on.

To set or change alarm 1, press **SKIP+** once, then press **ENTER**. To set or change alarm 2, press **SKIP+** twice, then press **ENTER**. To set or change alarm 3, press **SKIP+** three times, then press **ENTER**. To set or change alarm 4, press **SKIP+** four times, then press **ENTER**.

To exit alarm setting mode, press **BACK** again.

The alarm setup prompts you for the following parameters. Select a value for each parameter in press the **SKIP-/SKIP+** button control and press **ENTER** to confirm and move on to the next parameter.

Parameters:

- On time: hours and minutes
- Duration: **15 | 30 | 45 | 60 | 90 minutes** If the alarm is not cancelled returns to standby after this time period.
- Source: **DAB | FM | Buzzer** If DAB or FM is chosen as the audio source you will also be prompted to select the Last played station or one of the preset stations (*if set*).
- Daily | Once | Weekends | Weekdays Choose the days on which the alarm is active. Note: if you choose 'Once', you are prompted to enter the required date.
- Volume: (*increase using the right button or decrease using the left button*) This is the volume the alarm will build up to. (*Initially the alarm sounds at a low volume and gradually gets louder to the set volume*).
- Alarm: **Off | On**

In all listening modes active alarms are indicated by displaying the relevant **Alarm 1** and / or **Alarm 2 / Alarm 3 Alarm 4** icons.

At the set time, the alarm will sound, quietly at first, then gradually building up to the set volume. When an alarm sounds, the bell icon in the display flashes.

To cancel a sounding alarm and switch the radio to standby by pressing standby

2. Sleep

(To access Sleep, Press and hold the MENU button, then using the SKIP + / SKIP - as arrow keys and ENTER to select, Choose SYSTEM then SLEEP)

Choosing Sleep: You can choose the sleep delay time in minutes from:

Sleep Off | 15 | 30 | 45 | 60 | 90

Use **SKIP-/SKIP+** button control to cycle through the options then press **ENTER** to choose the displayed option. Once you select a sleep delay period, the display returns to the Now playing screen with a sleep icon showing. After the sleep delay period the radio switches to standby mode.

3. Equaliser

(To access Equaliser, Press and hold the MENU button, then using the SKIP + / SKIP - as arrow keys and ENTER to select, Choose SYSTEM then Equaliser)

This presents a number of preset settings plus a My Equaliser option to allow you to create your own equaliser settings.

My EQ... | Normal | Classic | Jazz | Pop | Rock | Speech

This option allows you to set a bias in the treble and bass audio frequencies. Values can be set between -7 (*Minus 7*) and +7 (*plus 7*).

My EQ...

Treble: (Use the **SKIP- / SKIP+** button control to choose a bias value between -7 and +7) **Bass –** (Use the **SKIP- / SKIP+** button control to choose a bias value between -7 and +7)

4. Backlight

(To access Backlight, Press and hold the MENU button, then using the SKIP + / SKIP - as arrow keys and ENTER to select, Choose SYSTEM then BACKLIGHT)

The display has a backlight with three brightness settings, and adjustable timeout (*this is the time delay, in seconds, after which the display switches to the Dim level*).

There are three settings:

- Timeout - Light On | 10 | 20 | 30 | 45 | 60 | 90 | 120 | 180
- On level - Low | Mid | High
- Dim level - Low | Mid | High

Note: as you cycle through the possible values, an asterisk appearing to the right-hand side of the display indicates the currently selected value for each setting.

5. Language

The language used for display messages can be selected from:

English	German	French
Italiano	Espanol	Dansk
Svenska	Norsk	Nederlands

6. Factory Reset

(To access Factory Reset, Press and hold the MENU button, then using the SKIP + / SKIP - as arrow keys and ENTER to select, Choose SYSTEM then FACTORY RESET)

A factory reset clears all user defined settings, replacing them with the original default values, so time/date, preferences/settings, DAB station list and preset stations are all lost. If you select Factory reset, you are asked to confirm by selecting Yes.

Operation

DAB Radio Mode

DAB radio mode receives DAB/DAB+ digital radio and displays information about the station and programme / track as broadcast. To enter **DAB MODE** Press **MODE** until the display shows **DAB**

1. Scanning for stations

The first time you use the radio, or if the station list is empty, the radio automatically performs a full scan to see what stations are available. You may also need to start a scan manually to update the list of stations for one of the following reasons:

- New stations may become available from time to time.
- Stations close or can no longer be received (*In the station list, invalid stations are indicated with a question mark in front of their name*).
- If reception was not good for the original scan (*for example the antenna was not up*), this may result in an empty or incomplete list of available stations.
- If you have poor reception of some stations causing the audio to break up, you may wish to list only stations with good signal strength. To do a full scan Select **MENU > FULL SCAN**.

Once a scan is complete, the radio returns to playing the previously-selected station or first station on the station list.

2. Selecting Stations

To change station Use the **SKIP - / SKIP+** button to scroll through the list of stations and press to enter button to the displayed station. The Now playing screen is displayed with the new station details.

Some stations are secondary services associated with a Primary channel and only available at certain times. Any station that has associated secondary services is indicated with a double chevron pointing to the right.

The Secondary service station is indicated with a double chevron pointing left. In the Station List Secondary stations are always listed next to their Primary station rather than the normal.

3. Presets

The radio has 20 preset memories for DAB.

To store a station in a preset memory Press and hold Preset until the display shows Preset Store. Presets (1-20) are displayed as either Empty or with the currently stored station name. Use the **SKIP- / SKIP+** button to choose a preset memory then press enter button to store the currently playing station.

After confirming the preset station is stored the display reverts to the Now playing screen.

To recall a preset station Press Preset briefly (*the display will show Preset Recall*). Select one of the listed preset stations using the **SKIP- / SKIP+** button and press enter button to choose the displayed preset station.

4. Manual Tune

As well as the normal method of scanning, you can also manually tune to a particular channel/frequency. This can be useful for adjusting your antenna to achieve the best possible reception and scanning a particular channel to update the station list.

To Manually Tune:

Press and hold **INFO / MENU** > Manual tune then use **SKIP-** / **SKIP+** button control to display a particular channel / frequency, press **ENTER** to tune to that channel / frequency. The display shows a live indication of the received signal strength on the selected frequency. Adjustments to your antenna will be manifested in the received signal strength displayed.

Note: The slightly larger rectangle indicates the audio quality threshold – if the signal strength, as indicated by the solid rectangles, falls below this threshold the audio quality will deteriorate.

At the same time The radio scans for any DAB stations on the selected frequency and updates the station list with any new stations found. To listen to any stations found, return to the Now playing screen and select the required station from the station list as normal.

5. Now Playing Information

While a station is playing, the screen shows its name and DLS (*Dynamic Label Segment*) information broadcast by the station such as programme name, track title and contact details. Long DLS info, over 16 characters scrolls across the display.

Press **INFO / MENU** Each time you press Info, the next set of information is displayed, cycling through: DLS text, DL Plus information (*this is only displayed if broadcast by the station*), signal strength, programme type, ensemble name, channel number / frequency, signal error rate, bit rate, codec/DAB variant, power status (*Mains/Battery*), time and date.

Note: *DL Plus presents additional information that can be broadcast by stations and stored temporarily on your radio.*

To return to the default Now playing screen at any time, Press and hold **INFO / MENU**.

6. Other Settings

Dynamic range compression (DRC)

This function reduces the difference between the loudest and quietest audio being broadcast. Effectively, this makes quiet sounds comparatively louder, and loud sounds comparatively quieter.

Note: *DRC only works if it is enabled by the broadcaster for a specific station.*

To change the DRC setting Select **MENU > DRC >** The options available are: **DRC off | low | high.**

FM Radio Mode

FM radio mode receives analogue radio from the FM band and displays RDS (*Radio Data System*) information about the station and show (*where broadcast*).

To enter FM MODE:

Press **MODE** until the display shows **FM Mode**

1. Selecting stations

The first time you select FM radio is set to the lowest frequency in the FM band.

To scan for a station in **FM MODE** Press **ENTER**. It scans up through the FM band frequencies, showing the current frequency on the screen display.

A scan stops when a signal is found. The radio can be set to stop at each station or only at stations with a strong signal.

Alternatively, you can tune, using the **SKIP-** / **SKIP+** button control on the front panel or the left and right buttons on the IR remote control, in 50 kHz steps.

2. Presets

The Radio has 20 preset memories for FM, which work in the same way as DAB mode presets.

3. Now Playing Information

While FM radio is playing, the screen shows its frequency, or if RDS information is available, station name and any further 'Radio Text' information. If no information is available, just the frequency and a No Radio Text message is shown.

To view further information about the broadcast:

Press **INFO** Each time you press Short press **INFO / MENU** , the next set of information is displayed, cycling through: RDS Radio Text, programme type, frequency, mono / stereo, power status (*Mains / Battery*), time and date.

To return to the default Now playing screen:

Long press **INFO / MENU**.

4. Settings

Scan settings By default, FM scans stop at any available station (*All stations*). This may result in poor quality audio from weak stations.

Options: All stations | Strong stations only

To change the scan settings, to stop only at stations with good signal strength **Select Menu > Scan setting** then **Strong stations only**. **Audio settings** By default, all stereo stations are reproduced in stereo. For weak stations, this may result in poor quality audio. The audio quality can be improved using mono.

Options: Stereo allowed | Forced mono

To play weak stations in mono **Select Menu > Audio setting > Forced mono**.

Aux-In Mode

Aux In mode plays audio from an external source such as an MP3 player.

To play audio with Aux In mode:

1. Turn the volume low on both the radio and, if adjustable, the audio source device.
2. Connect the external audio source to the Aux In 3.5 mm stereo socket.
3. Press Mode until the display shows Auxiliary Input.
4. Adjust the volume of the radio (*and, if necessary, the audio source device*) as required.

Now playing information:

When in Aux In mode, the screen shows Auxiliary Input and the battery power indicator. Press Info to toggle between time, date and battery power indicator information.

IMPORTANT SAFETY INFORMATION

1. Read these instructions.
2. Keep these instructions. Instructions are also available for download at www.azatom.com
3. Heed all Warnings.
4. Follow all instructions.
5. Do not clean the apparatus near or with water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings.
Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

10. Only use attachments/accessories specified by the manufacturer.

11. Unplug this apparatus during light storms or when unused for long periods of time.

12. Refer all servicing to qualified service personnel.

Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

13. No naked flame sources, such as lit candles, should be placed on the apparatus.

14. Dispose of used electrical products and batteries safely according to your local authority and regulations.

ADDITIONAL WARNINGS

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquid, such as vases, shall be placed on apparatus.

Main plug is used to disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the main mains completely, the mains plug should be disconnected from the main socket outlet completely.

Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

RECYCLING ELECTRICAL PRODUCTS

You should now recycle your waste electrical goods and in doing so help the environment.



This symbol means an electrical product should not be disposed of with normal household waste. Please ensure it is taken to a suitable facility for disposal when finished with.

IMPORTANT: Please read all instructions carefully before use and keep for future reference



• Risk of electric shock.
Do not open



• When servicing, use only identical replacement parts.



• Read all instructions carefully before use and keep for future reference.





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