

AZATOM®

Blackfriars B2

DAB, DAB+, FM Radio with BT Wireless Audio



User Manual

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

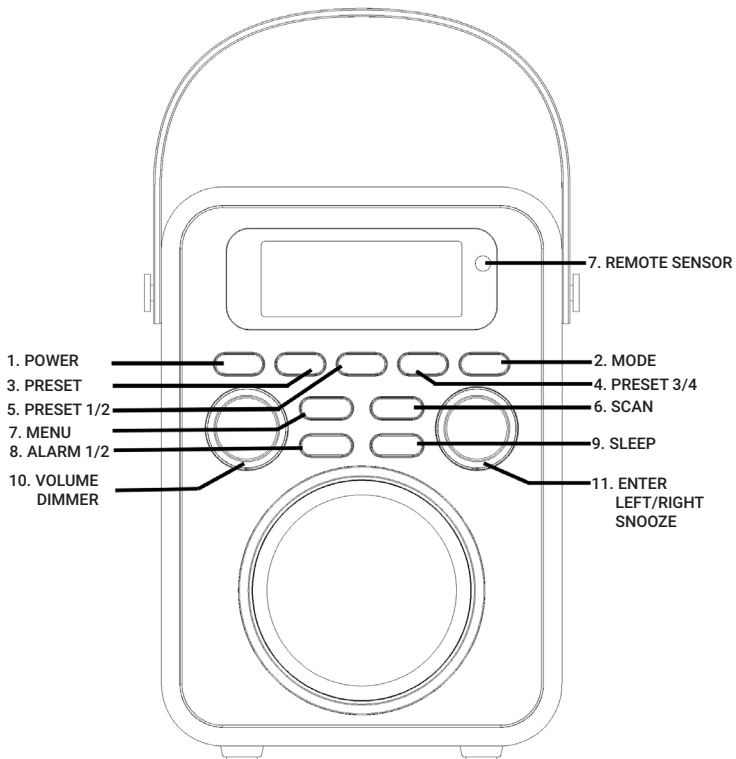
Specifications

- Max Output power 30 Watts
- S/N ratio: ≥ 70 dB
- Distortion: $\leq 1\%$
- Frequency Response: 100HZ-18KHZ
- Audio input mode: DAB, FM, BT, AUX
- Adjustment form: knob & button adjustment
- Speaker size: 70mm Internal magnetism (4 ohms)
- Input power: 5V / 2000mAh lithium-ion battery
- DAB receive input sensitivity: -95dBm
- FM receive input sensitivity: -105dBm
- Working temperature: -10°C~+50 °C
- Storage ambient temperature: -20°C ~ +70 °C
- Unit size: 180mm x 130mm x 95mm (HxWxD)
- Weight: About 860 g

Box contents

- Blackfriars B2 Radio
- Remote Control
- Power Adapter
- User Manual
- Warranty Card

Button position



Product Key

1. POWER ON / STANDBY

Press and hold **POWER** button until the display turns ON. After powered on you can short press for STANDBY. Press and HOLD again to power off.

2. MODE

Press MODE button to change to modes DAB, FM, AUX, Bluetooth.

3. PRESET

Press and hold **PRESET** button until "**Preset store**" appears.

Press once the **PRESET** button so "**Preset recall**" appears

4. PRESET 3/4

Press and hold to store

Press once to play stored preset.

5. PRESET 1/2

Press and hold to store

Press once to play stored preset.

6. SCAN / PLAY / PAUSE

DAB/ FM mode. Press SCAN button for station scan and store.

Bluetooth mode. Press Play/pause when music playing.

7. MENU

8. ALARM 1/2

Press **ALARM 1/2** button to set alarms

Press and hold **ALARM 1/2** button to deactivate / activate alarms

9. SLEEP

Press **SLEEP** button for "**15,30,45,60,90, OFF**"

10. VOLUME - +

Press for **BRIGHTNESS CONTROL**

11. ENTER Press for ENTER

BACK <<

FORWARD >>

SNOOZE Press for **SNOOZE**

12. USB - C 5V-1A

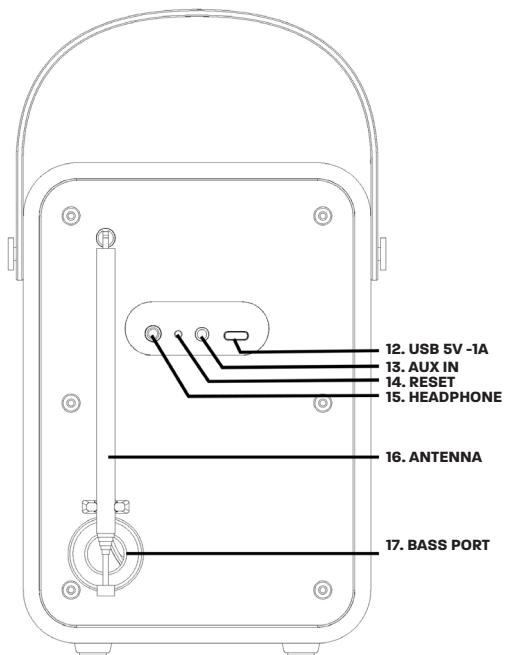
13. AUX in

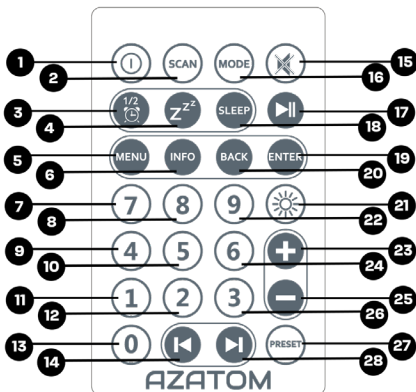
14. RESET BUTTON

15. HEADPHONE

16. ANTENNA

17. BASS PORT





1. **POWER ON/STANDBY** Short press for standby. Press and hold for power off.
2. **SCAN** Press for full scan of available stations.
3. **ALARM** Press once to enter the alarm setting. Press and hold to disable alarm / enable alarm
4. **SNOOZE** Press to SNOOZE.
5. **MENU** Press to enter the menu settings
6. **INFO** Press for station information
- 7,8,9,10,11,12,13,22,24,26 **PRESET** Press and hold to store. Press once to play
13. **0** Press to make preset 10.
14. **SKIP BACK** Press --- move the station list back Press and hold---to move back fast
15. **MUTE button** Volume ON/OFF
16. **MODE button:** Switch between DAB / FM / Bluetooth /AUX
17. **PLAY/PAUSE** Play and pause Bluetooth.
18. **SLEEP** Press for 15,30,45,60,90, off minutes
19. **ENTER** ENTER
20. **BACK** Press when in menu and you want to go back
21. **BRIGHTNESS** 4 LEVELS, High, Medium, Low, Off
23. **Volume +**
25. **Volume -**
27. **PRESET** Press and hold for Preset Store Press once for Preset List.
28. **SKIP FORWARD** Press --- move the station list forward Press and hold---to move forward fast

Switch on your radio

How to power On/Off & use your DAB radio for the first time:

- 1- Carefully extend the telescopic aerial.
- 2- Press the **POWER** button to switch on your radio. The display will show "**AZATOM Digital radio**".
- 3- If this is the first time the unit goes into DAB Mode, it will automatically start an '**Auto Scan**' to search for available stations.

(If DAB Mode has been used before, the radio will automatically select the previously played station).
- 4- Press **SCAN** at any time will automatically start an auto scan.
During the scanning process, the lower line of the display shows a bar-graph indicating progress of the scan and found number of stations.
- 5- When the scanning is completed the first station (in alphabetic order) will be selected. The clock will automatically set to the current time.
- 6- If the station list is still empty after the scan your radio will display "**Service not available**".
- 7- If no stations are found, please ensure the aerial is extended and test the reception by doing another auto scan in a different location.

STANDBY:

When the Blackfriars is already powered on and playing you can press the **POWER** button to go into "**Standby**".

In standby mode, Press the **POWER** button again to power the unit on.

POWER OFF:

Press and hold the **POWER** button until the radio says "**Power off**".

CHARGING:

The Blackfriars can be charged while either powered on or off, it is recommended to use either a PC USB port or the supplied charger (The input charge is DC5V, →1000mA).

You can use the Blackfriars and charge it at the same time.

MENU:

1- In various playback modes, Press and hold **MENU** button to go into the menu "**settings**".

2- Turn the **ENTER** dial to highlight the sub-menu options.

3- Press **ENTER** button to go into sub-menu options if available.

4- Press **ENTER** button to confirm any highlighted option.

5. To return to the previous menu press **MENU** button.

MANUAL SET DATE AND TIME:

If the Blackfriars does not find a strong enough signal to auto set the date and time, you can manually set them using the Time/Date menu.

1- Press **MENU** button to show "Settings". Press **ENTER**

2- Turn **ENTER** dial to find "**Time/Date**". Press **ENTER**

3- Set time and date as required and Press **ENTER** after stage.

After you've set the date and time, the menu will automatically exit to the previous menu and save your manual time and date setting.

Bluetooth

To pair your device via Bluetooth for the first time:

1- Select the BT mode by pressing the **MODE** button to see "BT"

2- After a few seconds, the speaker will automatically go into pairing mode.

3- On your Bluetooth device (such as mobile phone) do a search and once available please select "**Azatom Blackfriars**".

4- Once connected, the screen will say "**Bluetooth connected**".

Alarm Clock

ALARM CLOCK SET:

- 1- Press **ALARM 1/2** button.
- 2- Turn **ENTER** dial to choose "**Alarm 1 or Alarm 2**". Press **ENTER**.
- 3- Turn **ENTER** dial to set hours. Press **ENTER**.
- 4- Turn **ENTER** dial to set minutes. Press **ENTER**.
- 5- Turn **ENTER** dial to set duration. Press **ENTER**.
- 6- Turn **ENTER** dial to set alarm sound source, from "**Buzzer,, FM, DAB**"
- 7- Turn **ENTER** dial to set what's days alarm sounds from "**Once, Daily, Weekends, Weekdays**."
8. Turn **ENTER** dial to set Alarm volume. Press **ENTER**.
9. Turn **ENTER** dial to set Alarm "**ON or OFF**" Press **ENTER**.

SNOOZE ALARM:

When Alarm is sounding press **ZZZZ** button to snooze from either "**5, 10, 15, 30**" minutes

DISABLE / ENABLE ALARM

If you want to keep Enable of disable a already set alarm to use for a later date you can do the following.

- 1- Press and hold **ALARM 1/2** button on radio or remote to cycle through.
 - Alarm 1 On
 - Alarm 1 Off
 - Alarm 2 On
 - Alarm 2 Off
 - Alarm 1 and 2 On
 - Alarm 1 and 2 OFF

DAB Radio

DAB Function

If the Blackfriars enters DAB mode for the first time, The radio will automatically search and store radio stations in your local area. If the radio has already searched and stored radio stations before, you can check your list of stations by turning the ENTER dial and Press ENTER to select and play any of the stations.

1- Press **SCAN** button to start a search for available stations.

2- Once the scan is complete you will see on the display the name of the station currently selected before the display reverts to showing the time. You can turn the ENTER dial at any time to go through the available stations which are in alphabetic order.

3- Press **ENTER** to play any of the selected stations.

Finding new DAB stations

Over time new stations may become available. To find new stations you can auto scan as follows.

1- Press **MENU** button until the display shows "**Settings**". Press **ENTER**

2- Turn **ENTER** dial until you see "**Full scan**". Press **ENTER**

3- The display will show "**Scanning...**" as your radio performs a scan. As new radio stations are found they will be added to memory.

Manual Tuning – DAB

Manual tuning allows you to tune your radio to a particular DAB frequency in Band III. This function is mainly used to assist the positioning of the aerial or the radio to optimise reception for a specific channel or frequency and see the signal strength on your display.

1- When in DAB mode, press **MENU**.

2- Turn ENTER dial to find "**Manual tune**". Press **ENTER**

3- Choose the required DAB channel / Frequency. Press **ENTER**.

When the radio has searched, the display will show the channel number with frequency(MHz) and the name of the multiplex found(if any). A bar graph shows the signal strength. Any new stations found will be added to the list already stored in the radio.

4- Turn the ENTER dial to choose a different frequency.

5- Press **MENU** to go back to the main menu.

Auto Search Tuning - FM

1- Press **MODE** to enter "**FM**" mode.

2- Press **SCAN button**. Your radio will scan and save any FM stations with a strong signal in its memory. After the search is complete the display will show the frequency and play the first available station.

3- Turn and hold the ENTER dial to fast search to the next available FM station.

4. Turn the ENTER dial once will fine tune the FM frequency by 5mHz.

Prune - DAB

Prune: (To remove stations which are listed but unavailable).

1- In **DAB MODE**, press **MENU**.

2- Turn ENTER dial to find "**Prune**", Press **ENTER**.

2- Turn ENTER dial to find "**YES**". Press **ENTER** button to confirm to prune. **Note:** *this removes all the invalid stations indicated in the station list with a "?" in front of the station name.*

Preset Stations – FM and DAB

You can store your preferred DAB and FM radio stations to the preset station memories. There are 80 memory presets in your radio, 40 for DAB and 40 for FM.

1- Press **MODE** button to choose "**DAB OR FM**" Mode.

2- **IMPORTANT:** Make sure the station you want to preset is actually playing.

3- Press and **HOLD** the **PRESET** button for 2 seconds until you see "**Preset store**" not "**Preset Recall**"

4: Turn ENTER dial to choose which number preset you want to save your station into (**Presets 1 to 40**).

5- Press **ENTER** to confirm and store the playing station in your chosen preset number (**1 to 40**). For example, "**Preset 01 stored**". Repeat this procedure.

6- **TO FAST PRESET(RADIO)** Use the numbered buttons **1/2, 3/4** and **5/6** on the radio. Play the station you want to "**Preset**". Press and hold the numbered button until you see "**Preset stored**". You can choose any of the preset number buttons. The maximum number of presets you can save this way is 6.

7- **TO FAST PRESET(REMOTE)** Use the numbered buttons **1,2,3,4,5,6,7,8,9** on the remote. Play the station you want to "**Preset**". Press and hold the numbered button on the remote until you see "**Preset stored**". You can choose any of the preset number buttons. The maximum number of presets you can save this way is 9.

Recalling Presets

- 1- Press **MODE** to choose "**DAB OR FM**" Mode.
- 2- Press once the **PRESET** button to see "**Preset Recall**" not "**Preset Store**"
- 3: Turn the **ENTER** dial to choose which number preset (**1 to 40**) you want to play from your saved presets. Press **ENTER** to play station.

Fast Preset Recall:

If you have already saved your presets you can choose which one to play with the fast recall buttons.

On Radio

- 1- Press **1/2** , **3/4**, **5/6** at any time to play any of your stored presets.

On remote:

- 1- Press **1**, **2** , **3**, **4**, **5**, **6**, **7**, **8** ,**9** at any time to play any of your stored presets.

Sleep Function

Your radio can be set to turn off after a preset time has elapsed. The sleep setting can be adjusted between **15 and 90 minutes**. Ensure your radio is switched on.

- 1- Press **SLEEP** button to set sleep time.
- 2- Continue to press **SLEEP** button until you find the desired sleep time of **15**, **30**, **45**, **60** and **90** minutes or **SLEEP OFF** which will cancel the sleep function.
- 3- Press **SELECT** to confirm the setting. The sleep timer indicator will show after 10 seconds. Your radio will switch off after the selected preset sleep time has elapsed.

Backlight Setting

As default, the display brightness is set to stay ON. You can change this settings to auto dim that saves the battery life when used on batteries.

To set the backlight auto dimmer,

1. Press the **MENU** button to find "**settings**" menu. Press **ENTER**
2. Use the dial to find "**Backlight**" on the display. Press **ENTER**
3. Choose "**Backlight Auto**" and press **SELECT**.
4. Choose between **ON, 10,20,30,45,60,90, 120 and 180** seconds for auto dim. If you choose **ON** the display will stay on all the time.

DIM LEVEL: Set dim brightness "**HIGH, MEDIUM, LOW, OFF**" when set to auto dim after an elapsed time.

AUX-IN

Aux-in mode plays audio from an external source such as a smart phone.

- 1- Plug on end of 3.5mm audio cable (excluded) into the headphone or line out jack on your player, plug the other end of cable into the unit AUX-IN jack.
- 2- Turn on the external audio source and play your device.
- 3- Press **MODE** button to "**Auxiliary Input**" mode.
- 4- The volume level can be now controlled through the main unit.

Please ensure the cable is disconnected to listen to the radio in other modes such as DAB and FM.

Earphones (NOT INCLUDED)

- 1 - Plug the earphones into the Earphone socket on the side of your radio.
- 2 - Check that the Volume level is not too loud before placing the ear-pieces into your ears.

IMPORTANT: Do not switch on the radio with the earphones connected and inserted in your ear. Excessive sound pressure from earphones can cause hearing loss.

Languages

- 1- Press **MENU** button to "**Settings**". Press **SELECT** to enter settings.
- 2- Scroll through the settings menu to find the language options.
- 3- Select which language you require from: **English, Deutsch, Italiano, Francais, Espanol.**

Factory reset

If your radio fails to operate correctly, or some digits on the display are missing or incomplete, it may be possible to restore normal operation by carrying out a system reset. This will restore the radio's settings to their factory defaults. No presets will be stored, and the list of DAB radio stations will be empty.

If you have moved to a different part of the country and you wish to erase local DAB radio stations that are no longer available from the stored list, then you may carry out this procedure.

- 1- Press **MENU** to enter the "**settings**". Press **ENTER**.
- 2- Choose "**Factory reset**". Press **SELECT**.
- 3- Choose **YES**. Press **SELECT**.
- 4- After a system reset an auto scan for stations will start.

If your radio locks at any time you can use the **RESET** button on the rear of the radio. Just press it once and it will reboot.



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