

AZATOM®

Blackfriars BK100

DAB, DAB+, FM Radio with BT Wireless Audio



BEST OF BRITISH
& EUROPEAN



Audio &
Electronics

User Manual

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

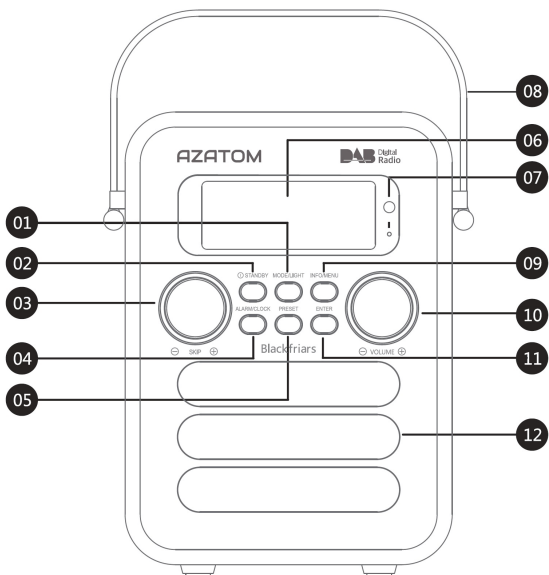


Specifications

- Output power RMS: 3.0W (4.0V 1KHZ Sine wave, 0dB)
- S/N ratio: ≥ 70 dB
- Distortion: $\leq 1\%$
- Frequency Response: 100HZ-18KHZ
- Audio input mode: DAB, FM, BT, USB, TF, AUX
- Adjustment form: knob & button adjustment
- Driver unit: 52mm Internal magnetism (4 ohms, 3W) * 2
- Input power: 18650 3.7V / 1800mAh lithium-ion battery
- Maximum input power: ≤ 3 W
- USB/Mirco SD receive input sensitivity: 0dBm
- DAB receive input sensitivity: -95dBm
- FFM receive input sensitivity: -105dBm
- Working temperature: -10°C ~ +50 °C
- Storage ambient temperature: -20°C ~ +70 °C
- Unit size: 110mm/145mm/80mm
- Net weight: About 760 g

Specifications

- Blackfriars Radio
- Remote Control
- Power Adapter
- Aux Cable
- User Manual
- Warranty Card



Product Key

1. MODE/LIGHT

Short press: DAB / FM / AUX / BT / USB / SD six modes to switch

Press and hold: Display three brightness to switch between

2. STANDBY

All of the mode: Short press to enter into standby state & Press and hold to power on & power off;

Alarm: Short press: Cancel the alarm to enter power off or standby

3. SKIP -/+:

DAB mode: Rotate clockwise, Backwards to move the station
Rotate and hold, Backward to fast move the station

FM mode: rotate clockwise, Fine-tune backward
Rotate and hold, Forward and backward to automatically search

Menu mode: rotate clockwise, Backward to move

BT/USB/SD mode: clockwise rotation, previous song

DAB mode: rotate counter clockwise Forward to move the station
Rotate and hold, Forward to fast move the station

FM mode: counter clockwise rotation, Fine tuning to forward
Rotate and hold, Forward semi-automatic search

Menu mode: rotate counter clockwise, Forward to move

BT/USB/SD mode: rotate counter clockwise, the next song
Short press SKIP for confirmation function, Press and hold SKIP for auto-channel search function

4. CLOCK& ALARM

All of modes: Short press: CLOCK&ALARM button, Enter the set alarm clock interface

Press and hold: CLOCK&ALARM button, Enter the clock interface

5. PRESET

DAB/FM mode: Short press: Bring up the station, Press and hold: Pre-stored station

USB/SD mode: Short press: Single play/random play/all play

6. LCD display

7. Infrared remote control receiving window

8. Handle

9. INFO/MEN

Short press, Show to the information

Press and hold: Enter the menu settings: Again press to exit the current state

10. VOLUME +/-

Any mode: Rotate clockwise to increase volume, Counter clockwise rotation decrease volume Short press VOLUME button to mute ON/OFF

11. Enter/AUTO SCAN

In menu mode: Short press ---Confirm button U disk/SD card mode: short press ---Play/pause button

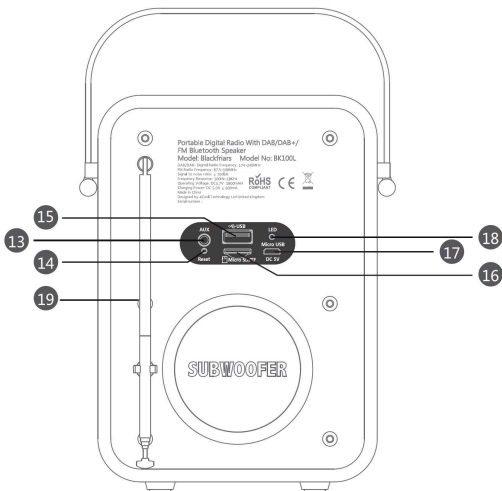
BT mode: Short press: Play/pause button

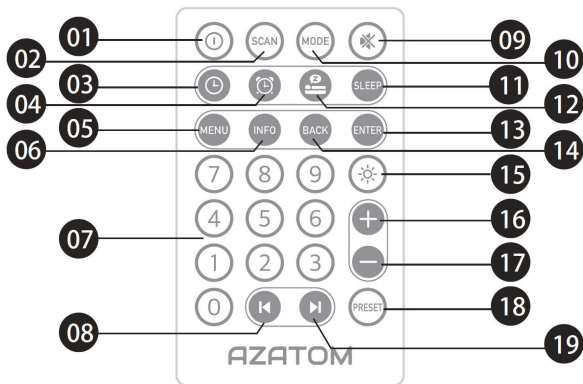
DAB mode: Press and hold: Auto search

FM mode: Short press: Semi-automatic channel search

Press and hold: Automatic channel search

- 12. **Speaker**
- 13. **Micro SD/TF**
- 14. **AUX**
- 15. **USB LED**





1. Short press the standby button: enter function mode/standby
2. **DAB& FM mode:** short press to search for radio stations;
3. **CLOCK setting key:** short press to enter the clock setting interface;
4. **ALARM key:** short press --- enter the alarm setting state
5. **MENU key:** short press to enter the menu settings
6. **INFO button:** short press to display information
7. **NUMBER keys:** Combine numbers 0-9 keys to select radio station or song number.

8. **SKIP-key**

DAB mode: short press --- move the station forward
 Press and hold---to move forward quickly

FM mode: short press --- forward fine-tuning
 Press and hold --- forward semi-automatic search
 Menu mode: short press --- move forward

9. **MUTE button:** ON/OFF
10. **MODE button:** mode switch button, DAB / FM / BT / USB / TF
11. In work mode, short press to set **SLEEP:** OFF/15/30/45/60/90 minutes

12. **SNOOZE button:** When the alarm sounds, short press to enter the snooze function;

In the snooze function, short press to select the snooze time

13. **ENTER key:** DAB and FM mode-OK key

BT mode-play/pause button In menu mode-confirm key

14. **BACK key:** Short press one level to return;

When the alarm is on, press and hold to cancel the alarm

15. **BRIGHTNESS key:** LCD brightness adjustment key, choose between 3 levels of brightness.

16. **VOL+ key: increase the volume**

17. **VOL- key: Volume down**

18. **PRESET Key**

19. **SKIP + Key**

Using Your Radio

Power On/Off & using DAB Mode for the first time:

When using this machine, extend the antenna full for the best radio signal.

Press and hold **STANDBY** to turn on the Blackfriars radio to automatically enter DAB mode. If this is the first time the Blackfriars has entered DAB mode, it will automatically search for and store DAB stations in your local area.

The radio will automatically synchronize the time and date with the stations found. After the search has finished, Rotate the SKIP button to select the station and press ENTER to confirm and play the station.

Press **MODE** to switch to FM mode, Press and hold **ENTER** button to automatically search and save the station. When listening to a certain station, Rotate **SKIP** to switch to the saved station, Short press **ENTER** to confirm the station. You can also press and hold **PRESET** to save your favourite radio station, Short press **PRESET** to call up the stored radio station list then Rotate **SKIP** to select the radio station, Pressing **ENTER** to confirm and play the selected station.

Standby:

Press **STANDBY** to enter **STANDBY** while set to any playback mode. At this time only show time clock and alarms set.

In Standby mode, You can press **INFO/MENU** to set the time, date, alarm and other settings.

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

Charging:

The Blackfriars can be charged while either powered on or off, It is recommended to use PC USB port or the supplied charger (The output is DC5V, →600mA) and use the attached USB cable for charging.

The indicator LED light is red when charging, The indicator light is green when the battery is fully charged.

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

Menu Settings:

In various playback modes, Press and hold **INFO/MENU** to enter into the menu settings in this mode, Rotate **SKIP +/-**-highlight a sub-menu item, Press **ENTER** to confirm and enter, If there is only one sub-menu in the sub-menu, press **ENTER** to confirm the highlighted option. To return to the previous menu press **INFO/MENU**.

Manually setting the date and time:

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

Press and hold **INFO/MENU** or press and hold **CLOCK&ALARM** enter the main menu selection, Rotate **SKIP** to select Time/Date and press **ENTER**.

Rotate **SKIP** to select and adjust the Date, Press **ENTER** to confirm and then repeat to set the Month, Year, Hour and Minute.

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.

Press" **INFO/MENU**" to return step by step, Or press and hold **Info/Menu** to exit the menu.

Auto Update/Set 12/24 Hour/Set Date Format options:

Auto Update: Select Update From Radio or No Update

Set Hour System: Select 12Hour or 24Hour

Set Date Format: Select DD-MM-YYYY or MM-DD-YYYY

Alarm clock Settings

To set the alarm clock, Short press **CLOCK&ALARM** to enter the **ALARM** setting interface;

Rotate **SKIP** to select alarm 1 or alarm 2, 3 or 4 settings. After selecting the desired alarm, Short press the **ENTER** and rotate **SKIP** to select: Time / Source / Repeat / Volume / ON / OFF setting options.

Time: Select the time by rotating **SKIP**, and then press **ENTER** to confirm

Source: FM, DAB or Buzzer.

Repeat: There are Once / Daily / Weekends / Workday options.

Volume: Select the volume value through rotating **SKIP** left and right.

Alarm ON/OFF: On/Off option; Press **ENTER** to confirm After setting, Press **INFO/MENU** to exit the alarm setting When the alarm sounds, The sound is gradually increased to the set volume. Short press **ENTER** button to adjust the snooze countdown time and activate the snooze function; Short press **STANDBY** button to turn off the alarm when it is ringing.

DAB Function

If the Blackfriars enters DAB mode for the first time, The radio will automatically search for radio stations in your local area; if the radio has already searched for radio stations, Which can press and hold **ENTER** button to automatically search for stations again.

After the station search is completed, Rotate **SKIP** to move up and down the stations in the station list, Press **ENTER** to select the station; Rotate **VOLUME** to adjust the appropriate volume, Short press **VOLUME** to turn on mute, Then short press **VOLUME** mute off.

Short press the **INFO/MENU** to view the current radio information: text information, signal strength, program type, episode name, channel number/frequency, signal error rate, bit rate, time and date etc.

Press and hold the **PRESET** to enter the radio station pre-store interface, Rotate **SKIP** to move the pre-stored position up and down, Rotate " **SKIP**" button and **ENTER** to pre-store the radio station to the current position, Short press the **PRESET** button to enter the radio station recall interface, And then Rotate **SKIP** to select a pre-stored radio station, Press **ENTER** button to confirm and play; Which can also use the **0-9 number** buttons on the remote control to select the pre-stored radio station for play.

Note: A total of 40 preset radio stations are pre-stored.

FM Function

Turn the Blackfriars on and switch to FM Radio Mode.

Pressing and holding **ENTER** can automatically searches for radio stations and saves them to the available stations list. Rotate **SKIP** to highlight the saved radio stations and press **ENTER** to play the desired station.

Rotate **VOLUME** to adjust the appropriate volume, Push down **VOLUME** to toggle mute on and off.

Short press **INFO/MENU** button to view information about the current station, Text information, program type, set name, channel information, EQ type, battery level, time and date.

Press and hold **PRESET** to enter the radio pre-store interface, Rotate **SKIP** to move forward or After moving to the pre-stored position, Short press **ENTER** to pre-store the radio station to the current position.

Short press **PRESET** to enter the radio station recall interface, Rotate **SKIP** to move the pre-stored position forward or backward, Short press **ENTER** to recall the pre-stored radio station for playback; Which can also use the **0-9 number** button by remote control to pre-stored radio station can be recalled and played.

Note: A total of 40 stations are pre-stored.

Using AUX

Use the MODE button to select AUX mode, making sure to have your audio playing device connected via the AUX port.

Rotate **VOLUME** to adjust the appropriate volume, Short press **VOLUME** to turn on mute, and then short press **VOLUME** to turn off mute.

Playback USB (TF card)

Power Blackfriars on Press" MODE" button several times, When USB (or SD) appears on the display (It will be enter USB mode or SD mode) At this time,Which can play music by inserting USB flash drive (or Micro SD card) with MP3, WAV, FLAC, WMA, APE format songs

Rotate **VOLUME** to adjust the volume, Short press **VOLUME** to toggle mute on and mute off.

Rotate **SKIP** to switch Prev or next track Rotate and hold **SKIP** button to rewind and fast forward the song, Short press the **ENTER** to play or pause. Which can also use the **0-9 number** by the remote control to select songs for playback.

During playback, Short press **INFO/MENU** to view the currently playing song information (song name, current track/total track, current playing time/total current track time, date, etc.).

Bluetooth Pairing /Playback:

Power on, Press **MODE** button to switch several times, Until entering BT MODE, The "**BT**" icon in the upper left corner will light up, Then you will hear a "beep" sound, indicating that Bluetooth is turned on and connected.

Using Bluetooth device, for example a mobile phone - Turn on the Bluetooth device on your phone, Then search for nearby Bluetooth devices, choosing "**AZATOM Blackfriars**" from the list of available devices. Once connected the Blackfriars will beep to let you know its ready to play music.

If you disconnect your music playing device (in this example, a phone) the Blackfriars will beep again to let you know it has been disconnected.

Rotate **SKIP** to switch Prev or next track, Short press **ENTER** to play / pause, Rotate **VOLUME** to adjust the appropriate volume, Push down **VOLUME** to toggle mute on and mute off.

Press and hold **ENTER** button to disconnect from the mobile device.



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