August®

User Manual

MB420

EN	DAB/DAB+/FM & Bluetooth Radio
FR	Radio FM / DAB / DAB+ Bluetooth et réveil
DE	DAB/DAB+/FM Bluetooth Alarm Clock Radio
IT	Radio DAB / DAB+ con Bluetooth e sveglia
ES	Radio DAB/DAB+/FM y Bluetooth
PL	Radio DAB / DAB+ / FM Bluetooth z budzikiem

User Manual

Thank you for purchasing the August MB420 DAB/DAB+/FM Alarm Clock Radio. This user manual is designed to familiarize you with all the features of this device. Please take the time to read this user manual carefully, even if you are already familiar with a similar product.

Safety

To ensure the safety of you and others, please read the Safety Instructions before using this device. Please do not disassemble the MB420, it can be unsafe and will invalidate the manufacturer's warranty.

Disposal

Please ensure the product and accessories are disposed of in compliance with the WEEE (Waste Electrical and Electronic Equipment) Directive and any other regulations applicable to your country. Always check with the environment agency and any other relevant authorities for current disposal regulations.

Declaration of Conformity
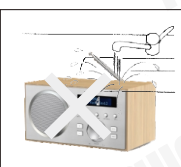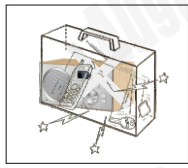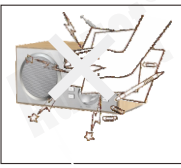
The Declaration of Conformity can be found on our website at http://augustint.com/en/declaration/
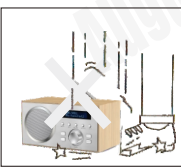
Customer Service

You can contact us by phone on: +44(0)845 250 0586 (Carrier Rates Apply) or by email at: service@augustint.com should you require further technical support or customer service.

1. Safety Instructions

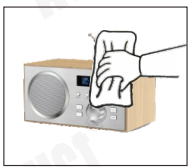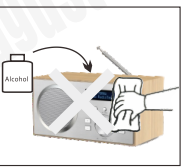## ■ Storage and Use

	Do not store or use this device in extreme temperatures.		Do not store or use this device in wet or damp environments.
	Do not expose this device to dust, oil or smoke.		Do not drop or strike this device.
	When transporting this device store securely to avoid impact damage.		Do not scratch this device with sharp objects.

■ Maintenance

Please unplug all leads before cleaning this device.

	Wipe the device and buttons with a soft cloth.		Never wipe this device with an abrasive cloth or apply detergent, alcohol or chemical based cleaning products.

2. Main Features

- ■ Wireless Speaker for Bluetooth devices
- ■ DAB/DAB+ and FM Radio Tuner
- ■ MP3 Player with USB Reader
- ■ Standard 3.5mm Audio In / Out Socket
- ■ Dual Alarm and Snooze Function

3. Box Contents

①   ②   ③   ④

MB420   Power Adaptor   User Manual   3.5mm Audio Cable

4. Part Names and Functions

1. LCD Display
2. MEMORY button
3. SELECT button
4. INFO/MENU button
5. SCAN/PAIR/
6. SOURCE button
7. PRESET +
8. PRESET −
9. TUNING backward
10. TUNING forward
11. Volume control/ Power on/off
12. Antenna
13. DC Input
14. USB Socket
15. AUX IN
16. Headphone Socket
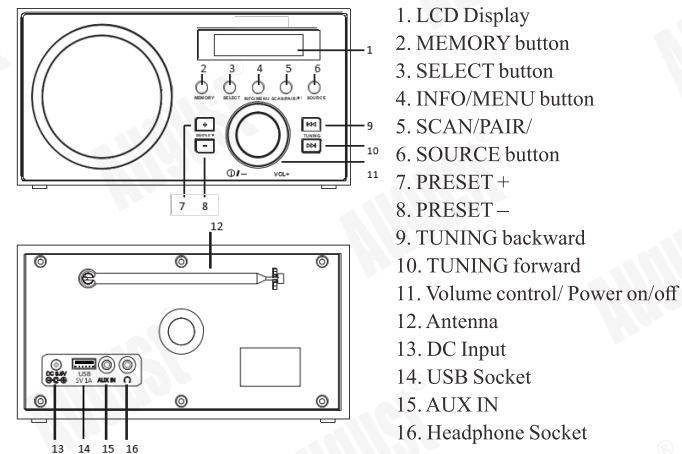
5. Operation

5.1 Power

Use the power adaptor provided to connect the MB420 to a plug socket. Press the Volume Control button (NO.11 In 4. Device Layout) to turn the radio on and Standby.

5.2 Mode

Press Source button repeatedly to cycle through Bluetooth, USB, AUX-IN, DAB+ and FM mode.

5.3 DAB radio mode

Press the "Power" button to turn on the device, and then press "Source" button to change to DAB mode. DAB radio mode receives DAB/DAB+ digital radio and displays information about the station and programme.

1. Reset and scan DAB/DAB+ station

When using the MB420 for the first time use, 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.
-Receive stations close or can no longer. In the station list, a question mark in front of the station name indicates that it is an invalid station.
-If reception was not good for the original scan - for example, the antenna was not fully extended - 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.

2. Manual Scan

In DAB+ mode, press and hold "Menu/Info" button until <Full Scan> displays on the screen. Then Select or press "Scan/Pair" Button, it will then start a full scan. Once a scan is complete, the radio returns to playing the previously selected station or the first station on station list.

3. Select stations
In DAB+ mode, press " ◄◄ " or " ►►I " to select through the list of stations. Stop at your preferred station, then press "Select". It will be tuned automatically within a second.
Note: During the search, operation of the sound level will be muted automatically.

4. Adjust volume
Turn the Volume Control Button clockwise or anti-clockwise to increase or decrease volume respectively.

5. Memory Settings
The Memory Settings allow you to save your favourite radio stations. First, choose your preferred radio station and hold down the 'Memory Button' for 2 seconds. Then, use the Volume Control Button to assign your preferred station a number on the station list. After this, press 'Select' to save.

5.4 FM radio mode

FM radio mode receives analogue radio from the FM band and displays RDS (Radio Data System) information about the station and programme, i.e. broadcasting location.
When a FM Radio is playing, the screen displays frequency, or if RDS information is available, station name and any further 'RadioText' information is shown.

If no information is available, just the frequency and the <No Radio Text> message will display.

1.Scan FM station
In FM mode, you can also tune the station manually. Press the "⏮" or "⏭" button to adjust the FM frequencies with 50 kHz down or up respectively.
If press and hold the "⏮" or "⏭" button, it will scan to previous or next station. (for details see Scan settings in section 4.2.1 Settings).

2.Adjust volume
Turn the Volume Control Button clockwise or anti-clockwise to increase or decrease volume respectively.

3.Memory Settings
The Memory Settings allow you to save your favourite radio stations. First, choose your preferred radio station and hold down the 'Memory Button' for 2 seconds. Then, use the Rotary Button to assign your preferred station a number on the station list. After this, press 'Select' to save.

5.5 Bluetooth mode
Press the 'Power' button to turn on the device and then press 'Source' button to change to Bluetooth mode. Turn on the Bluetooth function on your mobile device and look for "MB420" in the Bluetooth device list. After successfully connecting, adjust the volume on your audio device to the desired volume level.

5.6 USB Mode
1. Connect your USB device to the unit.(MAX 64GB)
2. Press "Source" until "USB" appears on the display screen. Music files stored on the USB will automatically play.

3. Press " Scan/Pair/⏯ " to pause or resume playback.
4. Press "⏮ or ⏭ " to skip to the previous or next track.

5.7 Aux-in Mode
Press the 'Power' button to turn on the device and then press "Source" button to change to AUX-IN mode. Use a 3.5mm audio cable to connect the speaker to an audio source to play music from the audio source.

5.8 Advance settings
Advance Settings allow you to tailor the DAB/DAB+/FM radio with a variety of options to suit you. To access Advance settings from any mode, press and hold the "Menu/Info" button for 2 seconds.

5.8.1 DAB+ radio mode
Use the Volume Control Button to cycle through the different menus, then press 'Select' your preferred option. The Advance Setting menu options are:
• Full scan
• Manual tune
• DRC
• Prune
• TA
• System
• INFO

1. Full scan
Under advance setting, turn the Volume Control Button to find Full scan through the menu list, then press "Select" to confirm. The radio will automatically start scanning after 3 seconds. Once a scan is complete, the radio returns to playing the previously- selected station or first station on the station list.

Note: If no radio station is found, it shows No DAB Station. For a better reception, extend the antenna or do the full scan again in another place.

2.Manual tune
You can manualy 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.

Under Advance Settings, turn the Volume Control Button to find "Manual tune" through the menu list, press "Select" then turn the Volume Control Button to select a particular 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.

3. DRC (Dynamic range compression)
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.

Options: off(default) | low | high
Under advance setting, turn the Volume Control Button to DRC through the menu list, then press "Select". Then turn the Volume Control Button to select particular setting.

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

4. Prune (remove stations that are listed but unavailable)
This removes all invalid stations indicated in the station list with a '?' in front of the station name.
Under advance setting, turn "Volume control" to find Prune through the menu list, then press Select. Then turn the Volume Control Button to choose"Yes"then press "Select" to confirm removing all invalid stations, it will automatically start the process after 3 seconds.

5. TA (Traffic Alarm)
Under Advance Settings, turn the Volume Control Button to TA through the menu list, then press "Select" to confirm. Then turn "Volume control" to choose "on" or "off" to open or close this function.

6. System
The System menu options are:
• Sleep
• Alarm
• Time
• Backlight
• Language
• Factory Reset
• SW version
Note: as you go through the possible values, an asterisk (*) appearing to the right-hand side of the display indicates the currently selected value for each setting.

6.1 Sleep
Press and hold "Info/Menu". Choose "System" and press "Select". Choose " Sleep" and press " Select". Turn the Volume Control button to choose a time before the device switch off, press "Select" to confirm.

You can set your radio to turn off automatically using the sleep timer.
You can choose a time before switching off: 15, 30, 45, 60 or 90 minutes.

6.2 Alarm
1. Press and hold "Info/Menu". Choose "System" and press "Select" to confirm. Choose "Alarm" with ◄◄ or ►► and press "Select" to confirm.

2. Select "Alarm 1" or "Alarm 2" and press "Select" to confirm.

3. Select the Hour of the alarm and press "Select to confirm. Select the minutes of the alarm and press "Select" to confirm.

4. Select the duration of the alarm (15, 30, 45, 60 or 90) and press "Select" to confirm.

5. Select the source of the alarm (DAB, FM, USB, Buzzer) and press "Select" to confirm. If you use the radio, select the station and press "Select" to confirm.

6. Select the frequency (Daily, Once, Weekends, Weekdays) and press "Select" to confirm.

7. Adjust the volume and press "Select" to confirm.

8. Select « On » or « Off » to activate or desactivate the alarm, and press "Select" to confirm. When finished, "Alarme Saved » is displayed on the screen.

Snooze
When the alarm sounds, Press any key (except Standby, stop Alarms) button to keep Snoozing another 9 minutes.

Stop Alarms
When the alarm sounds, press the standby button to stop;

6.3 Time
In the Time menu, you can set the Time and Date.

Set the time by turning the Volume Control Button confirm by pressing Select. Set the date by turning the Volume Control Button and confirm by pressing Select. Once saved, the Time will show on the display.

In the Time menu, you can select other parameter by turning Volume Control Button.
Set the time and date update method: Update from Any / Update from DAB+ / Update from FM /
No update and then press "select" to confirm
Set the 12 /24 hour: Set time format to 24-hour or 12-hour, and then press select to confirm. Set date format to DD/MM/YYYY or MM/DD/YYY, and then press Select to confirm.
Note: The time and date will be reset by default after the device is powered off and rebooted. Please turn the radio on and the date will automatically update when a channel is tuned.

6.4 Backlight
Follow the below instructions to select the backlight menu. The sections after explain each setting.
1.Press and hold the Menu button
2.When the 'Full Scan (DAB)or ' Scan Setting (FM) option appears press either Prev. or Next buttons to cycle through the menu options until you locate 'system'. Press the Select button to select
3.Use the Prev. or Next buttons to locate the Backlight option and press the Select button.

Timeout:
Following backlight setting1-3steps
1.Use the Prev. or Next buttons to locate the Timeout option and press the Select button
2.Use the Prev, or Next buttons to cycle through options 10-180 seconds
3.Press the Select button to store the setting

On level
Following backlight setting 1-3steps
1. Use the Prev. or Next buttons to locate the On level option and press the Select button
1. Use the Prev. or Next buttons to cycle through Low or High
3. Press the Select button to store the setting
4. The Low or High backlight brightness level will be effective immediately and restore the default backlight level according to the selected Timeout option.

Dim level
Following backlight setting1-3steps
1. Use the Prev. or Next buttons to locate the 'Dim level option and press the Select button.
2. Use the Prev. or Next buttons to cycle through Low or High
3. Press the Select button to store the setting.
4. The Low or High backlight brightness level will be effective according to the selected Timeout option.

6.5 Language
The language used for display messages can be selected from below options: English | French | German | Italian | Spanish | Portuguese | Polish | Swedish | Danish | Finnish Cycle through Language menu by turn the Volume Control Button to select and stop at a particular language by pressing "Select" .

6.6 Factory reset
A factory reset clears all user 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". Under advance setting, turn the Volume Control Button to select "Factory reset" through the menu list, you are asked to confirm by selecting "YES".

6.7 SW version
This displays the current software version.
Cycle through the menu, turn the Volume Control Button to find "SW version" in the menu list, then press Select.
1.Info
You can view further information when the unit is working under DAB mode. Press Info/menu Button repeatedly and you can have options include:
•DLS (Dynamic Label Segment – short text information broadcast with DAB+ audio)
•Signal Strength
•PTY (Programme Type)
•Ensemble
•Frequency
•Signal Quality
•Bitrate codec
•Time
•Date

5.8.2 FM radio mode
Under Advance Settings, turn the Volume Control Button to cycle through the menu list, then stop at your preferred option. The selected function will start automatically after 1 second. The advance setting menu options are:

•Scan setting
•Audio setting
•System (please refer to section 6 in 5.8.1)

1. Scan setting
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
Turn the Volume Control Button, then press Select to choose a particular option in Scan setting.

2. Audio setting
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
Turn the Volume Control Button, then press Select to choose a particular option in Audio setting.

3. System
Please refer to section 6 in 5.8.1

4. Info
You can view further information when the unit is working under FM mode. Press Info/menu Button repeatedly and you can have options include:
•Radio Text
•PTY (Programme Type)
•PS (Programme Service)
•Stereo & Mono
•Time
•Date

5.8.3 Bluetooth mode:
Under Advance Settings, turn the Volume Control Button to cycle through the menu list, then stop at your preferred option. The advance setting menu options are:
•System (please refer to section 6 in 5.8.1)
•Bluetooth Pair Name: MB420

5.8.4 USB mode:
Under Advance Settings, turn the Volume Control Button to cycle through the menu list, then stop at your preferred option. The advance setting menu options are:
•System (please refer to section 6 in 5.8.1)

5.8.5 Aux-in mode:
Under Advance Settings, turn the Volume Control Button to cycle through the menu list, then stop at your preferred option. The advance setting menu options are:
•System (please refer to section 6 in 5.8.1)

6. Troubleshooting

Problem	Solutions
No sound	• Increase the volume
Poor sound quality in Radio mode	• Adjust aerial.
Hiss in FM mode or intermittent cut-out in DAB.	• Adjust aerial. • Relocate radio. • Rescan for channels.
No audio in Bluetooth mode.	• Check Bluetooth connection to source. • Delete Bluetooth connection from source and repair. • Increase MB420 volume. • Increase source volume.
Bluetooth does not connect.	• Check that source is switched on. • Check that Bluetooth is enabled on source.
Poor or intermittent sound via Bluetooth	• Move source device closer to MB415

7. Specification

Display	LCD
Bluetooth Version	V5.3
Bluetooth Working Range	up to 10m
DAB Radio Frequency	174.928 – 239.2 MHz
FM Radio Frequency	87.5 – 108 MHz
Frequency Response	50 HZ – 18 KHz
Transmission Frequency	2,4 GHz
Tuner	DAB+ SILICON
Chipset	SI4684
Pre-set Station	30
Speaker	5W RMS (10% THD)
USB Port	USB 2.0
USB Play Format	Supports MP3/ WMA
AUX In Port	3.5MM
Earphone jack	3.5MM
Dimensions	225x157x116mm
Net Weight	1088g
Maximum USB Size	64GB

8.Warranty

This product is guaranteed for 12 months from the date of the original purchase. In the unlikely event of any defect arising due to faulty materials or workmanship, the unit will be either replaced or repaired free of charge (where possible) during this period. An alternative product will be offered in case the product is no longer available or repairable.

This warranty is subject to the following conditions:
- ■ The warranty is only valid within the country where the product is purchased.
- ■ The product must be correctly installed and operated in accordance to the instructions given in this user manual.
- ■ The product must be used solely for domestic purposes.
- ■ The warranty only covers the main unit, and does not cover the accessories.
- ■ The warranty does not cover the damage caused by misuse, negligence, accident and natural disaster.
- ■ The warranty will be rendered invalid if the product is resold or has been damaged by inexpert repairs. The manufactures disclaim any liability for incidental or consequential damages.
- ■ Please consult our customer adviser before returning any product; we are not responsible for any unexpected product returns.
- ■ Any faulty product must be kept and returned in the original packaging with all the accessories and the original copy of the purchase receipt.

The warranty is in addition to, and does not diminish, your statutory or legal rights.

Customer Service:
Telephone: +44 (0) 845 250 0586 (Carrier Rates Apply)
Email: service@augustint.com

This product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The Declaration of conformity may be consulted online at http://www.augustint.com/en/declaration

UK CA

Industry Canada Statement
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept interference, including interference that may cause undesired operation of the device.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

■ Reorient or relocate the receiving antenna.
■ Increase the separation between the equipment and receiver.
■ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
■ Consult the dealer or an experienced radio/TV technician for help.

No Unauthorized Modifications: Do not make any changes or modifications to this product without the prior express written approval of August International Ltd. Any changes or modifications made without express written approval could void the user's authority to operate this product.

FC

For details of further relevant technical standards, please contact us at the address above.