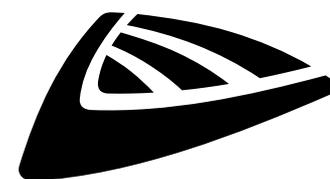# webamp 200

FM/dab+/BT/Internet radio-amplifier 2x 200W
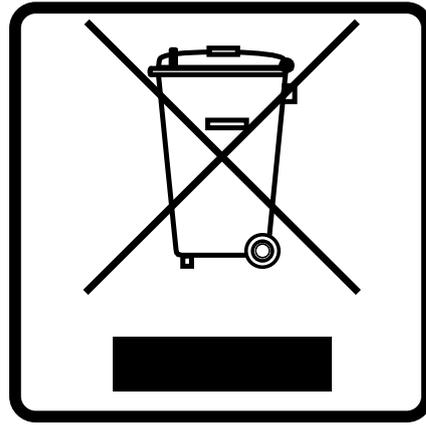

ENGLISH
Operation Manual

Other languages can be downloaded from:
WWW.JB-SYSTEMS.EU

CE

Version: 1.1

JBSYSTEMS

EN - DISPOSAL OF THE DEVICE

Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

FR - DÉCLASSER L'APPAREIL

Débarrassez-vous de l'appareil et des piles usagées de manière écologique Conformément aux dispositions légales de votre pays.

NL - VERWIJDEREN VAN HET APPARAAT

Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

DU - ENTSORGUNG DES GERÄTS

Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

ES - DESHACERSE DEL APARATO

Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su pais.

PT - COMO DESFAZER-SE DA UNIDADE

Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.

OPERATION MANUAL

Thank you for buying this JB Systems® product. To take full advantage of all possibilities, please read these operating instructions very carefully.

FEATURES

- The perfect all-in-one audio solution in a compact 19"/1U enclosure.
- Designed for many different applications: canteens, cafés, shops, living rooms, …
- Powerful built-in amplifier (2x 250Wrms @4ohm) on master 1!
- Extra balanced master 2 output with tone controls for extra amplifier(s)!
- 4 inputs to connect different extra audio sources (CD, TV, PC, video, …)
- Microphone input with automatic talk-over and tone controls!
- Full featured internal audio-player with 2.4" color display:
  - **Internet Radio** with 5 direct-access buttons, 35 extra presets and online "AIRABLE" Radio Portal.
  - **DAB+ Radio** with 5 direct-access buttons and 5 extra presets
  - **FM Radio** with 5 direct-access buttons and 5 extra presets
  - **Spotify Connect:** the entire Spotify catalog is waiting for you, only a Spotify subscription is needed.
  - **Podcast Player:** worldwide access to over 5 million podcasts!
  - **USB flash disk player:** tons of music, up to 128GB!
  - **Bluetooth Support:** stream audio from your smartphone to your speakers!
  - **UNDOK / OKTIV:** APP-control for iOS and Android
  - **IR-remote control:** included infrared remote control
  - **Digital output:** Toslink + RCA
- Wireless and wired RJ45 internet connection.
- Wifi/Bluetooth and FM-antenna included
- The 19" adapters can be removed for use in standard 43cm hifi-racks.

BEFORE USE

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.
- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.
- To protect the environment, please try to recycle the packing material as much as possible.

<u>**Check the contents:**</u>
Check that the carton contains the following items:
- WEBAMP 200
- Wifi-antenna
- FM-antenna
- IR-remote control
- Power cord
- User manual

SAFETY INSTRUCTIONS:

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.

The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the use or the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

This symbol means: indoor use only

This symbol means: Read instructions

- This appliance is intended for use in moderate climates.
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- This unit is for indoor use only.
- Don't place metal objects or spill liquid inside the unit. No objects filled with liquids, such as vases, shall be placed on this appliance. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- No naked flame sources, such as lighted candles, should be placed on the appliance.
- Don't cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum save ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- Minimum distances around the apparatus for sufficient ventilation is 5cm.
- Always unplug the unit when it is not used for a longer time or before you start servicing.
- The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated on the rear panel of the unit.
- The socket inlet shall remain operable for disconnection from the mains.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. If damaged, replace the power cord immediately to avoid a hazard.
- Never let the power-cord come into contact with other cables!
- When the power switch is in OFF position, this unit is not completely disconnected from the mains!
- This CLASS I appliance must be connected to MAINS socket outlet with a protective earth connection in order comply with safety regulations.
- To prevent electric shock, do not open the cover. Apart from the mains fuse there are no user serviceable parts inside.
- **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the appliance and contact your dealer immediately.
- Please use the original packing when the device is to be transported.
- Due to safety reasons, it is prohibited to make unauthorized modifications to the unit.
- This appliance or its remote control contains batteries:
  - Attention should be drawn to the environmental aspects of battery disposal: check the regulations in your country for proper recycling.
  - CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. The battery shall never be exposed to excessive heat such as sunshine, fire, …

INSTALLATION GUIDELINES:
- Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.
- Placing and using the unit for long periods near heat-generating sources such as amplifiers, spotlights, etc. will affect its performance and may even damage the unit.
- The unit can be mounted in 19-inch racks. Attach the unit using the 4 screw holes on the front panel. Be sure to use screws of the appropriate size. (screws not provided) Take care to minimize shocks and vibrations during transport.
- When installed in a booth or flight case, please make sure to have good ventilation to improve heat evacuation of the unit.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance.

CLEANING THE APPLIANCE:
Clean by wiping with a polished cloth slightly dipped with water. Avoid getting water inside the unit. Do not use volatile liquids such as benzene or thinner which will damage the unit.
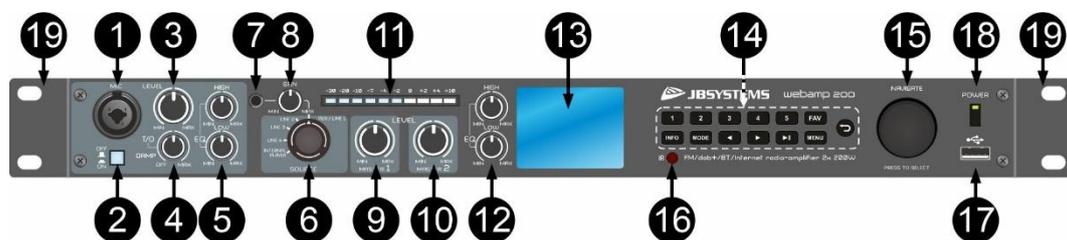
CONNECTIONS

Except for microphones, headphone and zone outputs, all connections are cinch. Use good quality cinch-cinch cables to prevent bad audio quality.
For more information on connections, please refer to the next chapter.
Be sure to turn off the unit before you make changes to the different connections.
In this manual we talk about "line inputs". This is a global name for inputs with a level between 750mV and 2V. This includes tuners, videos, CD-players, etc.
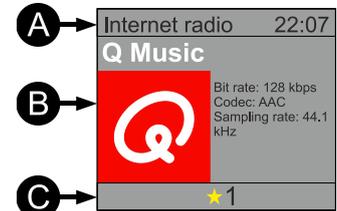
FUNCTIONS (FRONT)

1. **MIC INPUT:** Balanced microphone input with combo connector, both 6,3mm jack and XLR 3pin cables can be connected.
2. **MIC ON/OFF:** used to switch the microphone input on/off.
3. **MIC LEVEL:** used to adapt the microphone level. To avoid oscillation and possibly damaged tweeters, always start with the level at zero and then increase it gently.
4. **MIC TALKOVER LEVEL:** used to adjust how much the music level is reduced while talking in the microphone.
5. **MIC TONE CONTROLS**: used to adjust the individual high/low frequencies of the microphone signal.
6. **SOURCE SELECTOR**: used to select which audio signal is sent to the output:
    - **LINE 1:** line level input on the front panel.
    - **LINE 2,3,4:** line level inputs on the back panel.
    - **INTERNAL PLAYER:** the multifunctional internal player (internet radio, DAB+, FM, Spotify, …) is selected.
7. **LINE 1 input:** stereo 3,5mm jack input, used to connect different line level audio signals. Can also be used to connect the headphones output of a smartphone.
8. **GAIN LINE 1:** used to adapt the gain of the Line 1 input.
9. **MASTER 1:** used to adjust the master volume of the build-in amplifier.
10. **MASTER 2:** Used to adjust the master volume of the balanced master output, to connect any additional amplifiers.
11. **VU-METER:** used to monitor the audio levels. Use the gain controls of the different inputs to adjust the levels at 0dB.
12. **MASTER TONE CONTROLS**: used to adjust the individual high/low frequencies of the 2 masters.

13. **COLOR DISPLAY:** the 2,4" LCD color display shows all information, needed for easy use of the player. The display contains different information, depending on the selected mode:
    A. **UPPER PART:** selected working mode on the left side + current time on the right side.
    B. **MIDDLE PART:** detailed information about the current file or station, including logos / pictures.
    C. **BOTTOM PART:** contains different icons, as explained below:
       - ★ **Preset number:** number next to the icon
       - ⊚⊚ **FM RDS signal**
       - (|▶◀|) **Stereo station**
       - ▥▥ **Signal strength FM / DAB+**
       - ❚❚ **Playback paused**
       - ⟲ **Playback repeated**
       - ⤬ **Playback Shuffle**
       - ⟜ **Playback via USB**
       - ✗ **WIFI not connected**
       - ⏚ **WIFI connected**
       - ⬛ **RJ45 connected:** wired ethernet
       - ✺ **Bluetooth:** blinking→ not connected * constant on→ connected

Ⓐ ┤ Internet radio   22:07
    Q Music
Ⓑ ┤   Q   Bit rate: 128 kbps
                      Codec: AAC
                      Sampling rate: 44,1
                      kHz
Ⓒ ┤   ★1

14. **MULTIFUNCTIONAL BUTTONS:** easy control of different player functions:
    - **1→5 BUTTONS:** direct access to the first 5 preset stations of the internal DAB+, FM & Internet radio.
      - **SAVE a station:** Press the button during 2 seconds to program the current station.
      - **RECALL a station:** Press the button shortly to select the programmed station.
    - **FAV BUTTON:** access to other preset stations of the internal DAB+, FM & Internet radio.
      - **SAVE a station:** Press the FAV-button during 2 seconds and turn the navigation knob (15) to select the location where you want to store the current station. Press the navigation knob to confirm.
      - **RECALL a station:** Press the FAV-button shortly and turn the navigation knob (15) to choose the desired station. Press the navigation knob to select.
    - **INFO BUTTON:** press to see extra information on the selected song / station.
    - **MODE BUTTON:** press to select another music source. Use the navigation knob (15) to choose from: internet radio, Podcasts, Spotify, (USB) Music player, DAB+, FM or Bluetooth.
    - **◄ BUTTON:** used to select the previous track on Spotify or Media player. Long press starts downward automatic radio station search.
    - **► BUTTON:** used to select the next track on Spotify or Media player. Long press starts upward automatic radio station search.
    - **►❚❚ BUTTON:** press to play/pause Spotify, the USB/Bluetooth/Podcast player or internet radio. Long press to enable/disable the WIFI connection.
    - **MENU BUTTON:** press this button to enter the menu content of the selected audio source. Use the navigation knob (15) to scroll and select different options. At the bottom of the list, you can always access the main menu and system settings.

15. **NAVIGATION KNOB:** turn to navigate menus and push to select options. Also used to adjust the main volume of the media player. Press while not scrolling any menus to change the appearance of the display.

16. **IR RECEIVER:** receives the infrared signals from the IR-remote.

17. **USB-SLOT:** used to connect music USB-memory sticks with a capacity of up to 128GB.

18. **POWER BUTTON:** used to switch the unit on or standby.

19. **19" ADAPTERS:** used to install the unit in a standard 19" rack. The adapters can be removed when the device is used in a 430mm hifi-rack.
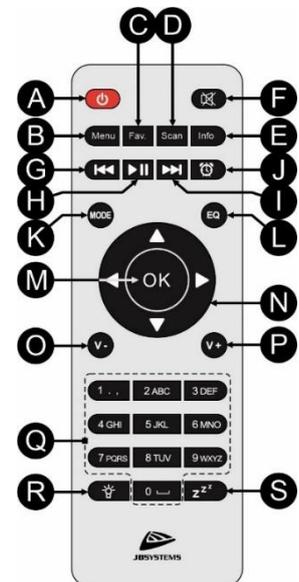
FUNCTIONS (rear)

20. **POWER INLET:** connect the supplied power cord to this inlet. The integrated fuse holder is equipped with an 8A/250V 20x5mm glass fuse.
21. **FM / DAB+ ANTENNA:** connect included antenna here. Move the antenna in the right position to optimize reception.
22. **WIFI / BLUETOOTH ANTENNA:** connect the included short antenna here for WIFI / Bluetooth reception.
23. **LINE OUT:** this line output ONLY carries the analog signal of the internal media player. It does NOT contain the same signal as the master 1 & 2 outputs!
24. **OPTICAL OUT:** this optical TOSLINK output carries the digital S/PDIF version of the line output (23).
25. **COAXIAL OUT:** this RCA output carries the digital S/PDIF version of the analog line output (23).
26. **ETHERNET:** RJ45 LAN-connection to connect the unit to the internet through a wired Local Area Network.
27. **LINE 2,3,4 INPUTS:** 3 extra stereo line inputs on RCA, each with its own gain control.
28. **MASTER 2 OUTPUT:** balanced stereo master output, allows connecting extra amplifiers for more power.
29. **FAN & VENTILLATION HOLES:** during its operation the amplifier produces heat that must be dissipated. The fans inside the amplifier must be able to evacuate the heat in the most effective way. Therefore, is it very important not to cover any of the ventilation openings as this may result in overheating.
30. **SPEAKER TERMINALS:** used to connect the speaker cables. Be sure to respect the +(red) and −(black) poles, as this is important for proper reproduction of low frequencies. We recommend 2.5mm² wiring but be sure to use at least 1.5mm² wiring to minimize power loss!

REMOTE CONTROL

A. **POWER:** same function as the POWER-button on the front panel.
B. **MENU:** same function as the MENU-button on the front panel.
C. **PRESET / FAV:** same function as the FAV-button on the front panel.
D. **SCAN:** starts upward automatic radio station search.
E. **INFO:** same function as the INFO-button on the front panel.
F. **MUTE:** press to mute / unmute the audio from the internal player.
G. **⏮:** same function as the ◄-button on the front panel.
H. **►ıı:** same function as the ►ıı-button on the front panel.
I. **⏭:** same function as the ►-button on the front panel.
J. ⏰ **ALARM:** 2 alarms can be programmed to automatically switch the unit on with choice of FM-, DAB- or internet-radio.
K. **MODE:** same function as the MODE-button on the front panel.
L. **EQ:** used to select different EQ-presets (not used on this unit)
M. **OK:** used to confirm an action (same as pressing the navigation knob on the front panel.
N. **◄►▲▼:** used to navigate the different menus.
O. **V-:** used to lower the volume of the internal player.
P. **V+:** used to increase the volume of the internal player.
Q. **0-9 KEYS:** direct access to preset stations of the internal DAB+, FM & Internet radio.
R. 💡 **DISPLAY:** press to change the brightness of the display.
S. **Zzz:** press to set the sleep timer, automatic switch off after 15, 30, 45 or 60 minutes.

BATTERY PLACEMENT

- Press the battery cover tab on the back of the remote control and slide it open.
- Insert two (2) x AAA batteries into the battery compartment. Make sure the polarity of the batteries matches the markings inside the battery compartment.
- Close the battery compartment cover again.

SETUP

QUICK SETUP

First time you switch the unit on, some setup is needed, please follow the steps below:

- Connect your speakers to the outputs to the speaker terminals (30)
- Connect the antennas (21) + (22)
- Connect the RJ-45 ethernet connection (26) to your wired local network (if available)
- Connect other audio units (if available) to the line inputs.
- Connect the unit to the mains (AC 210V~240V)
- Switch the unit on using the power switch (18).
- The display (13) shows the language menu: choose your language.
- Setup Wizard is shown: use the navigation button (15) to choose "yes" and press the knob to confirm.
- Choose the Hour format: "12" or "24" and confirm
- Best to choose "Update from Network" and confirm.
- Set the desired time zone and confirm.
- Select Daylight Saving: for Europe, during summer time, choose "yes" to add an extra 1hour.
- Keep network connected: choose "yes" to assure faster internet access → Network wizard starts scanning.
- You want **WIRED LAN access** (the most stable option), follow these steps:
    - Make sure the LAN is connected to the RJ45 connection (26) of the unit.
    - SSID: choose the option [Wired]
    - Wait until the connection is established → the setup wizard is completed!
- You want **WIRELESS LAN access**, follow these steps:
    - Make sure the WIFI is switched on and you know the password of the WIFI to activate the connection.
    - SSID: choose your wireless network (if available) and confirm.
    - KEY: use the navigation knob to set the password of your WIFI and confirm with "OK"
    - Wait until the connection is established → the setup wizard is completed!

Note: you can always run the Setup wizard again: Menu > System settings > Setup wizard
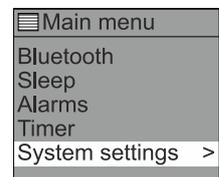
MAIN MENU

Via the main menu you can select the different working modes.
Instead of selecting the different modes via the Main menu, we suggest using the MODE-button on the front panel.
At the end of the menu tree you can select 3 additional functions:
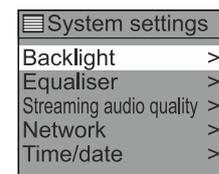
- **SLEEP:** use the navigation knob to scroll and select how long it should take to automatically switch the unit off: after 15, 30, 45 or 60 minutes (or no sleep timer).
  This function can also be selected using the "**Zzz" BUTTON** (S) on the remote.
- **ALARMS:** 2 alarms can be programmed to automatically switch the unit on with choice of FM-, DAB- or internet-radio. Use the navigation knob to scroll and set the different options.
  This function can also be selected using the ⏰ **BUTTON** (J) on the remote.
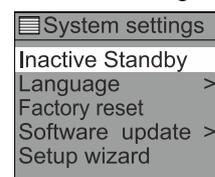- **TIMER:** not used in this unit.

SYSTEM SETTINGS

In this menu you can find a complete list of all functions to tweak and setup the player. Many of these settings are also done during the "quick setup" procedure.

- **BACKLIGHT:** used to set the how the display should react:
    - **Timeout:** set how long it takes for the display to switch to a different brightness while no controls are used: adjustable between 10s and 180s or unchanged (on).
    - **On level:** set the brightness while using the controls (High, Medium, Low).
    - **Dim level:** set the brightness while not using the controls (Medium, Low).
- **EQUALISER:** the EQ presets are not used in this unit.
- **STREAMING AUDIO QUALITY:** there are 3 audio streaming qualities: Low, Normal and High. The preferred streaming audio quality is "high" to assure the best possible audio quality. If the data bandwidth is limited you can lower the audio quality (bitrate) to Normal or Low to assure a stable audio stream, without dropouts.
- **NETWORK:** used to configure the network. Different options are available:
    - **Network wizard:** the easiest way to setup the network, see the previous chapter "quick setup".

- **PBC Wlan setup:** First, check if your router / access point supports Wi-Fi Protected Setup (WPS). If so, you can connect to your secure wireless network this way: start "PBC WLAN setup" and press a WPS button on the router (see router manual). Follow the instructions on the screen and click the dial to establish the connection.
- **View settings:** gives you more information about the network connection.
- **Manual settings:** This menu allows you to manually set the network parameters. These connection settings are maintained until factory reset or reconfiguration. The selected network type is remembered, there is no automatic switching between wired and wireless connections:
  - **Wired:** zorg ervoor dat de netwerkkabel op de RJ45-ingang (26) is aangesloten. U kan kiezen tussen:
    - **DHCP enable:** the network is set up automatically, no further action is required.
    - **DHCP disable:** You must enter the network parameters (IP address, subnet, gateway).
  - **Wireless:** make sure the wireless network is active and you know the password:
    - **DHCP enable:** enter the wireless network name (SSID) and select the authentication method:
      - **Open:** when the selected network has no password protection.
      - **WEP:** (older authentication method) → enter the password.
      - **WPA/WPA2:** (most used) → enter the password.
    - **DHCP disable:** You must enter the network parameters (IP address, subnet, gateway). After this, proceed with the authentication: same as in DHCP enabled.
- **NetRemote PIN Setup:** the player can be controlled via your smartphone by using 2 different Mobile apps: UNDOK or OKTIV. See chapter MOBILE APPS, later in this manual for more information. To prevent anyone from unwanted taking control of your player, you can set a secret PIN. The default PIN is 1234, but we recommend changing it to prevent unauthorized use.
- **Network Profile:** this is a list of previous wireless connections so you can easily reconnect to one of these connections.
- **Clear network settings:** used to erase the previously used wireless connections.
- **Keep network connected:** choose "yes" to also keep the network connected while in standby mode. This assures faster internet access.
- **TIME/DATE:** this submenu contains different date/time related settings.
  - **Set Time/Date:** normally the time and date are automatically updated via network, DAB+ or FM. If not, you can use this option to set time and date manually.
  - **Auto update:** you can choose how the time/date is updated (via DAB, FM, network, or no update)
  - **Set format:** you can choose between 12h or 24h format.
  - **Set time zone:** choose the time zone, according to your location, it will correct the time while automatically updated.
  - **Daylight savings:** for Europe, during summer time, choose "yes" to add an extra 1hour.
  - **Standby format:** in standby mode the display show the time, you can choose between analog or digital format.
- **INACTIVE STANDBY:** you can choose to switch the unit to standby when no controls are used during a certain time. You can choose: 2, 4, 5 or 6 hours. Or choose "off" if you don't want to use this feature.
- **LANGUAGE:** lets you choose the display language of the unit. Default language is English.
- **FACTORY RESET:** Reset all parameters to factory settings, use with care!
- **SOFTWARE UPDATE:** used to check and load the latest software of the unit.
  - **Auto check settings:** Select YES to automatically check for software updates on a regular basis.
  - **Check now:** forces an immediate check for new software.
- **SETUP WIZARD:** guides you through the most important parameters to setup and prepare the unit.
- **INFO:** contains all technical details and software versions of the internal player.

```
≣System settings
Inactive Standby
Language        >
Factory reset
Software  update >
Setup wizard
```

OPERATION

The unit is now ready to work in the different operation modes. Simply press the MODE-button on the front panel and turn the navigation knob to browse the different operation modes / audio sources of the player. Once you found the right mode, press the navigation knob to confirm. Below is a brief overview of the different modes and their corresponding menus.

Note: in the menus of most working modes, you will find as a last 2 options "System settings" and "Main menu" with which you always have direct access to most settings.

INTERNET RADIO ((⊕))

This option gives you access to thousands of internet radios from all over the world.
While selected, the "last Listened station" will automatically start playing.

Press the MENU-button to access the Internet radio-menu:

Internet radio	
Last listened	>
Station list	>
System settings	>
Main Menu	>

- **LAST LISTENED:** this is a list of the 5 stations you last listened to. You can easily select any of the other stations.
- **STATION LIST:** this option brings you to a new menu where you can also search and select other available stations, according to different criteria, see next point.
- **LOCAL RADIO STATIONS:** this is a list of radio stations in your country (in this case: Belgium). You can search more specifically by most popular stations, genres, cities, ...
- **SEARCH:** search for an internet station with a particular name.
- **LOCATION:** Search the entire world for a suitable radio station. First select a continent, followed by a country, and then search further according to the criteria offered such as genre, popularity, cities, ...
- **POPULAR:** search globally among the most popular Internet radios.
- **DISCOVER:** search and discover random Internet stations based on their location, genre offered and language.

Internet radio	
Belgium	>
Search	>
Location	>
Popular	>
Discover	>

  Note: exotic, less popular stations can take a while to load, just be patient. In some cases, a radio station cannot be played, due to some unknown technical issues.

AIRABLE Radio Portal

This Radio portal provides a great way to explore the Internet Radio & Podcast catalogue and save stations & podcasts to your device. If you have more than one device you can synchronize the favorites across your devices. You can also add Personal Streams which can be internet radio stations not in the catalogue, or premium service streams you have subscribed to.

- **REGISTER:** To use the Radio portal, first register using the link https://www.airable.fm/support/register and follow the instructions.
- **CONNECT YOUR DEVICE:** after the first login you must enter a "connect code" to connect your internet radio to the Airable® Radio portal. Follow the instructions on the web portal or use the push buttons & navigation knob on the unit to follow the steps below:
  - Select the "internet radio" mode.
  - Press the MENU button
  - Select the option "station list"
  - In the list select "My Added Stations"
  - The display shows the "access code": enter this code on the webpage and press "connect"
  - You can give your device a name so you can recognize it easily.
- **ADD STATIONS, PODCASTS & STREAMS:** on your Internet radio you will find the added content under the option "station list" > "My favorites"

Note1: Click on the "Help & Support" button at the bottom right of the web page for more information.
Note2: you can also suggest stations and Podcasts to other Radio Portal users.

PODCASTS 🎙

This option gives you access to thousands of podcasts from all over the world.
The structure and use of the menus is very similar to that of Internet radio.
Therefore, we refer to the explanation of the Internet radio: You simply replace "station" with "podcast" ☺.

DAB+ RADIO dab+

This option gives you access to interference-free local digital radio stations with excellent sound quality.
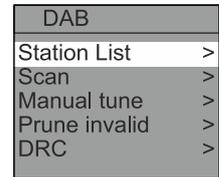While selected, the "last Listened station" will automatically start playing.
The first time you select the DAB+ mode, an automatic station search starts and all available DAB+ are stored.

Press the MENU-button to access the DAB-menu:

DAB	
Station List	>
Scan	>
Manual tune	>
Prune invalid	>
DRC	>

- **STATION LIST:** shows the list of all available DAB-stations at your location. Use the navigation knob to scroll through the list and select the desired station.
- **SCAN:** DAB stations regularly disappear and new ones are added. Therefore, it is good to occasionally update the list of DAB stations via this option. This does not affect the stations in the presets.
- **MANUAL TUNE:** Although not very convenient, you can also search for DAB stations manually. A list of stations and frequencies is displayed. You can scroll through the list to select one. Since 1 frequency can contain up to 4 or 5 stations, you must also use the ◄ and ► buttons to find a particular station.
- **PRUNE INVALID:** after scanning you get a list of DAB stations. Sometimes stations appear in the list while they are unavailable. You can delete these stations using the "prune invalid" function.
- **DRC:** (**D**ynamic **R**ange **C**ompression) If you listen to music with a high dynamic range in a noisy environment, you can compress the dynamic audio range. This makes soft sounds louder and loud sounds quieter. Set the DRC option to Off, Low or High.

FM RADIO ((?))
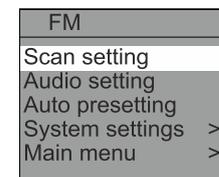
Use this mode to tune to analog FM stations.
Automatic scanning for FM stations can be done in 2 directions:

- Press the ► button or the navigation button for 2 seconds to start searching in increasing frequency.
- Press the ◄ button for 2 seconds to start searching in decreasing frequency.

Press the MENU-button to access the FM-menu:

FM	
Scan setting	
Audio setting	
Auto presetting	
System settings	>
Main menu	>

- **SCAN SETTING:** By default, automatic scanning stops at every detected station, even if the station has weak reception. Therefore, you can choose to stop only at stations with good signal strength and stable reception. To do so, select YES.
- **AUDIO SETTING:** All stereo stations are playing in stereo. This may cause weak stations to be very noisy. In mono, this noise is greatly reduced for weak stations. If the reception is weak, it is best to select mono reception.
- **AUTO PRESETTING:** You can choose to automatically program the detected stations under presets while scanning. If you wish to do so, select YES.

MUSIC PLAYER ♫

Used to play audio from the inserted USB-memory.
USB2.0 and USB3.0 Memory sticks with a maximum capacity of 128GB are supported.
Basic playback control:

- **◄ BUTTON:** used to select the previous track. Long press starts downward automatic radio station search.
- **► BUTTON:** used to select the next track. Long press starts upward automatic radio station search.
- **►ıı BUTTON:** press to play/pause playback. Long press to enable/disable the WIFI connection.
- **VOLUME:** turn the navigation knob (15)

Press the MENU-button to access the Music-menu:

Music Player	
USB Playback	>
My playlist	>
Repeat play: Off	
Shuffle play: On	
Clear my playlist	

- **USB PLAYBACK:** shows you a list of all available audio files and directories. Scroll the list and select a title to start playback. To add files to "My playlist":
    - Use the navigation knob to scroll the files, press 2s to add a file to a playlist.
    - To add a directory, press the navigation knob 2s to add all files from the directory to the playlist.
- **MY PLAYLIST:** shows all files that were added to the playlist. Scroll the list and press the navigation knob to start playback.
- **REPEAT PLAY:** choose if you want to repeat playback of all files / playlist. If you choose "off" playback stops when all files are played.
- **SHUFFLE PLAY:** choose if you want files to be played in random order or not.
- **CLEAR MY PLAYLIST:** used to clear the entire playlist and start again.

BLUETOOTH® AUDIO ✴

Used to stream audio from a Bluetooth device to the internal player.
When you select Bluetooth® mode, the player must be paired with an external Bluetooth device. At the bottom right, the Bluetooth icon flashes. Turn on your smartphone, tablet or other Bluetooth® device to search for the device.
The pairing name for Bluetooth® is "WEB-CONNECT".
Once the pairing is established, the Bluetooth® icon will no longer flash: you are now ready to stream audio to the player. Now you can use the same controls as on the USB music player:

- ◄ **BUTTON:** used to select the previous track.
- ► **BUTTON:** used to select the next track.
- ►ıı **BUTTON:** press to play/pause playback.
- **VOLUME:**   turn the navigation knob (15)

To disconnect Bluetooth®, simply turn off the Bluetooth® function on your external device.

SPOTIFY CONNECT ●

Use your phone, tablet or computer as a remote control for Spotify.
Go to www.spotify.com/connect to learn how.
The Spotify Software is subject to third party licenses found here:
https://www.spotify.com/connect/third-party-licenses

STORING AND RECALLING OF PRESETS (FAVORITES)

This explanation can be used for:
- **Internet radios, podcasts:** The 40 available presets are shared across Internet radios and podcasts.
- **FM-radios, DAB+ radios & Spotify:** each mode has its own 10 freely programmable presets.

HOW TO STORE PRESETS / FAVORITES:
To easily recall your favorite music, you have 2 ways to save them as favorites to the presets:
- **5 "DIRECT ACCESS" BUTTONS:**
  - While the radio station (or playlist) is playing, press and hold the desired preset button (14) until "Preset Stored" shows on the display. (Hint: reserve these 5 first presets for the most listened stations or playlists)
- **EXTRA PRESETS:**
  - While the radio station (or playlist) is playing, press the FAV-button (14) on the front panel until the display shows "Save to Preset".
  - Use the navigation knob (15) to select the line where you want to store the current station / playlist.
  - Press the navigation knob to store. → done!

HOW TO RECALL PRESETS / FAVORITES:
To easily recall one of the presets:
- **5 "DIRECT ACCESS" BUTTONS:**
  - Press one of the 5 preset buttons <u>shortly</u>.
- **EXTRA PRESETS:**
  - Press the FAV-button (14) on the front panel <u>shortly</u>!
  - Use the navigation knob (15) to select the preset.
  - Press the navigation knob to load the preset.

CONTROLLING WITH MOBILE APPS

All main functions of the player can be controlled via your smartphone by using 2 different Mobile apps: UNDOK or OKTIV.

Both apps have roughly the same features, up to you to choose the one that best suits your needs.

Both apps are available for Android (via Google Play) and iOS via Apple Store).

Scan the QR codes below for direct access:

UNDOK for Android	UNDOK for iOS	OKTIV for Android	OKTIV for iOS

Important notes: to work properly, the smartphone with UNDOK or OCTIV app MUST be on the same WIFI network as the player! Also check the "NetRemote PIN Setup" in the network settings of the player.

DIMENSIONS

SPECIFICATIONS

ENGLISH

JB Systems® hereby declares that the equipment described in this manual complies with RED Directive 2014/53/EU. The full text of the EU Declaration of Conformity, as well as the latest version of the manual and technical specifications, are available at the following internet address (under Manual and downloads): https://jb-systems.eu/webamp-200

NEDERLANDS

Hierbij verklaart JB Systems® dat de apparatuur beschreven in deze handleiding voldoet aan de RED richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring, alsook de laatste versie van de handleiding en technische specificaties zijn beschikbaar op het volgende internetadres (onder Handleiding en downloads): https://jb-systems.eu/nl/webamp-200

FRANCAIS

JB Systems® déclare par la présente que l'équipement décrit dans ce manuel est conforme à la directive RED 2014/53/UE. Le texte complet de la déclaration de conformité UE, ainsi que la dernière version du manuel et les spécifications techniques sont disponibles à l'adresse Internet suivante (sous Manuel et téléchargements) : https://jb-systems.eu/fr/webamp-200

DEUTSCH

Hiermit erklärt JB Systems® dass die in dieser Anleitung beschriebene Ausrüstung der RED Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung sowie die neuesten Versionen der Anleitung und der technischen Spezifikationen sind unter folgender Internetadresse verfügbar (unter Anleitung und Downloads): https://jb-systems.eu/de/webamp-200

Power Supply:	AC 220V – 240V, 50Hz
Max. power consumption:	642 W
Standby power consumption:	2,42 W
Fuse:	20mm glass fuse T8A / 250V

Amplifier part

Frequency response:	20-20.000Hz (+/-2dB)
THD + noise:	<0.1% @ 1kHz, 0dB
S/N Ratio (IHF-A):	>85dB @ 1kHz.
Micro inputs:	1.25mV @ 10kΩ
Line inputs:	775mV @ 10kΩ
Master A (amplified) output:	2x 250Wrms @4 ohm * 2x 130Wrms @8 ohm
Master B (balanced) output:	2,3V @ 600Ω bal.
Talkover:	0dB → -13dB
Tone controls:	+/-12dB @ 10kHz / 100Hz

Player part

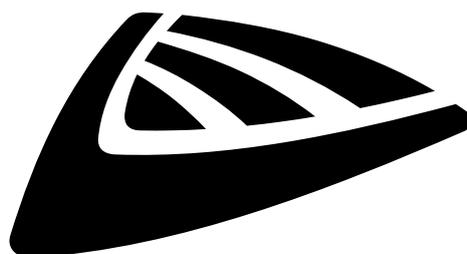|	
Music sources:	Internet radio, Spotify connect, Podcasts player, Bluetooth, DAB+ radio, FM radio, USB flash disk player
Connections:	75ohm unbalance FM/DAB antenna 2.4GHz SMA-terminal antenna, RJ45 ethernet connection Analog RCA, TOSLINK optical output, digital RCA
FM-Radio:	87.5 – 108 MHz (RDS support)
DAB+ Radio :	BAND III – 174.928 – 239.200 MHz
Display:	2,4" LCD graphic color display
WIFI:	2,412 ~ 2,472 GHz - 802.11a/b/g/n – WEP, WPA, WPA2 security,
WIFI, Max. RF-power:	15,2 dBm
Bluetooth:	2,402 ~ 2,480 GHz, 4.2 technology
Bluetooth, Max. RF-power:	4,83 dBm
USB:	2.0 (max 128GB) MP3 – AAC / AAC+ - FLAC - WAV
Software updates	OTA
Dimensions (no 19" adapters):	430(W) x 44(H) x 240(D) mm (hifi rack size)
Dimensions (19" adapters):	483(W) x 44(H) x 240(D) mm (19" / 1U)
Weight:	4kg

Every information is subject to change without prior notice
You can download the latest version of this user manual on our website: www.jb-systems.eu

JBSYSTEMS

MAILING LIST

EN: Subscribe today to our mailing list for the latest product news!
FR: Inscrivez-vous à notre liste de distribution si vous souhaitez suivre l'actualité de nos produits!
NL: Abonneer je vandaag nog op onze mailinglijst en ontvang ons laatste product nieuws!
DE: Abonnieren Sie unseren Newsletter und erhalten Sie aktuelle Produktinformationen!
ES: Suscríbete hoy a nuestra lista de correo para recibir las últimas noticias!
PT: Inscreva-se hoje na nossa mailing list para estar a par das últimas notícias!

WWW.JB-SYSTEMS.EU