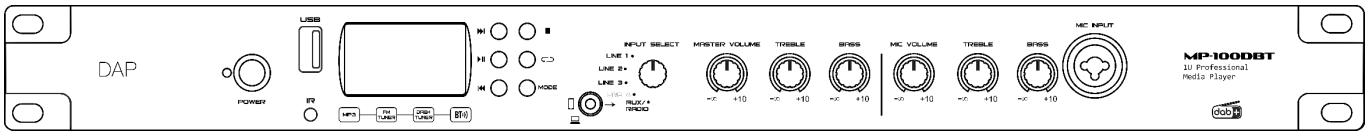
DAP

USER MANUAL



ENGLISH

MP-100DBT V1

Product code: D1246

Preface

Thank you for purchasing this DAP product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Installation and operation of the device
- Intended and non-intended use of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

©2022 DAP. All rights reserved.

No part of this document may be copied, published or otherwise reproduced without the prior written consent of Highlite International.

Design and product specifications are subject to change without prior notice.

For the latest version of this document or other language versions, please visit our website www.highlite.com or contact us at service@highlite.com.

Highlite International and its authorized service providers are not liable for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss arising from the use of, or inability to use or reliance on the information contained in this document.

Table of contents

1. Introduction 4
1.1. Before Using the Product 4
1.2. Intended Use 4
1.3. Text Conventions 4
1.4. Symbols and Signal Words 5
1.5. Symbols on the Information Label 5

2. Safety 6
2.1. Warnings and Safety Instructions 6
2.2. Requirements for the User 7

3. Description of the Device 8
3.1. Front View 8
3.2. Back View 8
3.3. Product Specifications 9
3.4. Dimensions 10

4. Installation and Setup 10
4.1. Warnings and Precautions 10
4.2. Safety Instructions for Installation 10
4.3. Installation Site Requirements 10
4.4. Rack Mounting 11
4.5. Connecting to Power Supply 11
4.6. Start-up 11
4.6.1. Setup Example 12
4.6.2. Switching On/Off 13
4.6.2.1. Stand-by 13

5. Operation 14
5.1. Safety Instructions for Operation 14
5.2. Functions 14
5.2.1. FM Radio Mode 15
5.2.1.1. Auto Scan 15
5.2.1.2. Selecting Radio Stations 16
5.2.1.3. Manual Tuning and Saving Presets 16
5.2.1.4. Viewing Radio Station Information 16
5.2.2. Aux Mode 17
5.2.3. DAB+ Mode 17
5.2.3.1. Auto Scan 17
5.2.3.2. Selecting Radio Stations 18
5.2.3.3. Saving Presets 18
5.2.3.4. Selecting Presets 19
5.2.3.5. Viewing Radio Station Information 19
5.2.4. BT Mode 19
5.2.5. USB Mode 20
5.2.5.1. Playback 21
5.2.5.2. Select Previous/Next File 21
5.2.5.3. Viewing Playback Status 21
5.2.5.4. Playback Modes 21
5.3. Settings Menu 22
5.3.1. Audio Setting 22
5.3.2. Scan Setting 22
5.3.3. Full Scan 22
5.3.4. Manual Tune 23
5.3.5. DRC 23
5.3.6. Prune 23
5.3.7. TA 23
5.3.8. System 24

5.3.8.1. Backlight 24
5.3.8.2. Language 24
5.3.8.3. Factory Reset 24
5.3.8.4. Software Version 24
5.4. Adjusting Bass/Treble/Volume 25
5.5. Setting Device Volume 25
5.6. Adjusting the Microphone Settings 25
5.7. Remote Control 26
5.7.1. Installation of the Batteries 26
5.7.2. Remote Control Functions 27
6. Troubleshooting 28
7. Maintenance 28
7.1. Safety Instructions for Maintenance 28
7.2. Preventive Maintenance 28
7.2.1. Basic Cleaning Instructions 29
7.3. Corrective Maintenance 29
8. Deinstallation, Transportation and Storage 29
9. Disposal 30
10. Approval 30

1. Introduction

1.1. Before Using the Product

Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the box. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

- DAP MP-100DBT
- Schuko to IEC power cable (1,3 m)
- Remote control
- User manual

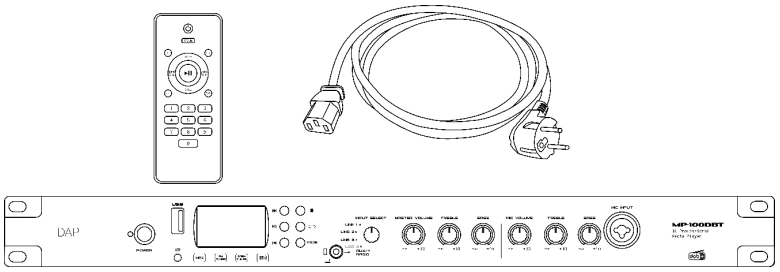


Fig. 01

1.2. Intended Use

This device is intended for professional use as a media player. It is suitable only for indoor installation. It is not suitable for households.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. Text Conventions

Throughout the user manual the following text conventions are used:

- Buttons: All buttons are in bold lettering, for example "Press the **UP/DOWN** buttons"
- References: References to chapters and parts of the device are in bold lettering, for example: "Refer to **2. Safety**", "press the **power switch (03)**"
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.4. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.



DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.



Attention Indicates important information for the correct operation and use of the product.



Important Read and observe the instructions in this document.



Electrical hazard



Provides important information about the disposal of this product.

1.5. Symbols on the Information Label

This product is provided with an information label. The information label is located on the bottom plate of the device.

The information label contains the following symbols:



This device falls under IEC protection class I.



This device shall not be treated as household waste.



Caution: Risk of electric shock. Disconnect input power before opening.
Warning: This appliance must be earthed.

2. Safety



Important
Read and follow the instructions in this user manual before installing, operating or servicing this product.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

2.1. Warnings and Safety Instructions



DANGER
Danger for children

For adult use only. The device must be installed beyond the reach of children.

- Do not leave various parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within children's reach. Packaging material is a potential source of danger for children.



DANGER
Electric shock caused by short-circuit

This device falls under IEC protection class I.

- Make sure that the device is electrically connected to ground (earth). Connect the device only to a socket-outlet with ground (earth) connection.
- Do not cover the ground (earth) connection.
- Do not let the power cable come into contact with other cables. Handle the power cable and all connections with the mains with caution.
- Do not modify, bend, mechanically strain, put pressure on, pull or heat up the power cable.
- Make sure that the power cable is not crimped or damaged. Examine the power cable periodically for any defects.
- Do not immerse the device in water or other liquids. Do not install the device in a location where flooding may occur.
- Do not use the device during thunderstorms. Disconnect the device from the electrical power supply immediately.



WARNING
Electric shock caused by dangerous voltage inside

There are areas within the device where dangerous touch voltage may be present.

- Do not open the device or remove any covers.
- Do not operate the device if the covers are open.
- Disconnect the device from electrical power supply before service and maintenance, and when the device is not in use.



Attention
Power supply

- Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.
- Make sure that the cross-sectional area of the extension cords and power cables is sufficient for the required power consumption of the device.



Attention
General safety

- Do not shake the device. Avoid brute force when installing or operating the device.
- If the device is dropped or struck, disconnect the device from the electrical power supply immediately.
- If the device is exposed to extreme temperature variations (e.g. after transportation), do not switch it on immediately. Let the device reach room temperature before switching it on, otherwise it may be damaged by the formed condensation.
- If the device fails to work properly, discontinue the use immediately.



Attention
This device shall be used only for the purposes it is designed for.

This device is designed to be used as a media player. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

This device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.



Attention
Do not expose the device to conditions that exceed the rated IP class conditions.

This device is IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2. Requirements for the User

This product may be used by ordinary persons. Maintenance and installation may be carried by ordinary persons. Service shall be carried out only by instructed or skilled persons. Contact your Highlite International dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the service of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and to avoid hazards associated with the service of this product.

Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

3. Description of the Device

The MP-100DBT is a media player. It can be installed in a standard 19-inch rack. It supports multiple (wireless) media sources, such as: DAB+, FM radio, AUX in/out and BT. The device can be operated manually or with the supplied IR remote control.

3.1. Front View

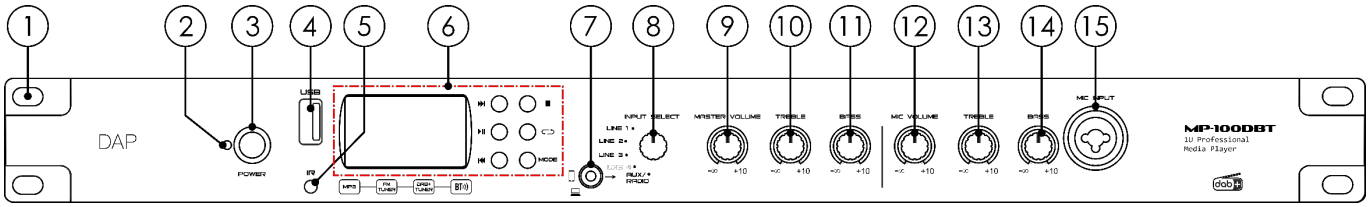


Fig. 02

01) 4 x mounting openings (for installation in a 19-inch rack)
02) Power LED indicator (Blue)
03) Power button
04) USB-A connector IN
05) Infra-red port
06) OLED display and control buttons
07) Balanced 3,5 mm TRS jack connector AUX IN
08) Input selector
09) Master volume control
10) Treble level control
11) Bass level control
12) Microphone level control
13) Microphone treble level control
14) Microphone bass level control
15) XLR/6,3 mm jack combo microphone connector IN

3.2. Back View

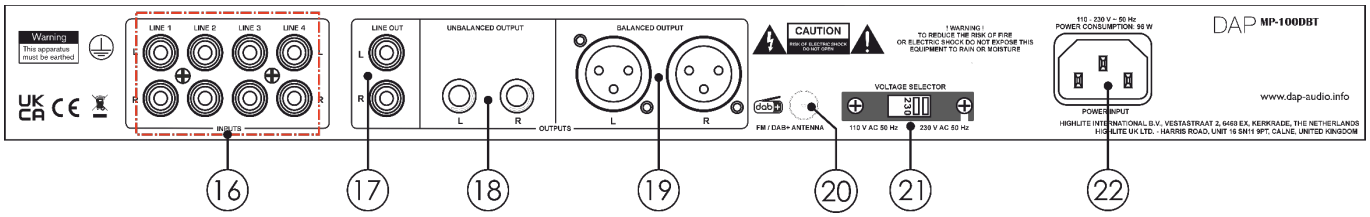


Fig. 03

16) (Line 1–4) RCA analog line-level connectors IN (Left/Right)
17) RCA analog line-level connectors OUT (Left/Right)
18) Unbalanced 6,3 mm TS jack line-level connectors OUT (Left/Right)
19) Balanced 3-pin XLR line-level connectors OUT (Left/Right)
20) DAB+/FM antenna connector IN
21) Input voltage selector (set to 230 V AC 50 Hz)
22) IEC power connector IN

3.3. Product Specifications

Model:	MP-100DBT
Electrical:	
Input voltage:	220–240 V AC, 50 Hz
Power consumption:	9 W
Playback:	
Supported audio files:	WAV, FLAC, MP3
USB flash drive:	USB-A, < 32 GB, FAT32-formatted
Outputs:	
Main outputs:	1
Inputs:	
Stereo inputs:	4
Mono inputs:	1
Auxiliary inputs:	1
Audio Specifications:	
Signal-to-noise ratio:	> 70 dB
Frequency response:	20–20000 Hz
FM frequency:	87–108 MHz
FM antenna impedance:	75 Ω
DAB+ frequency:	174,928–239,2 MHz
BT:	4.2
BT range:	20 m
Physical:	
Dimensions:	483 x 130 x 44,5 mm (W x D x H), 1 U
Weight:	1,65 kg
Operation and control:	
Control panel:	OLED display and buttons
Connections:	
Power connections:	Schuko cable (1,3 m)
Mono input connections:	3-pin XLR
Stereo input connections:	RCA, balanced 3,5 mm TRS jack
Auxiliary input connections:	balanced 3,5 mm TRS jack
Main output connections:	3-pin XLR, RCA, unbalanced 6,3 mm TS jack
Construction:	
Housing:	Aluminum/metal
Color:	Black
IP rating:	IP20
Thermal:	
Minimum ambient temperature t_a:	0 °C
Maximum ambient temperature t_a:	40 °C

3.4. Dimensions

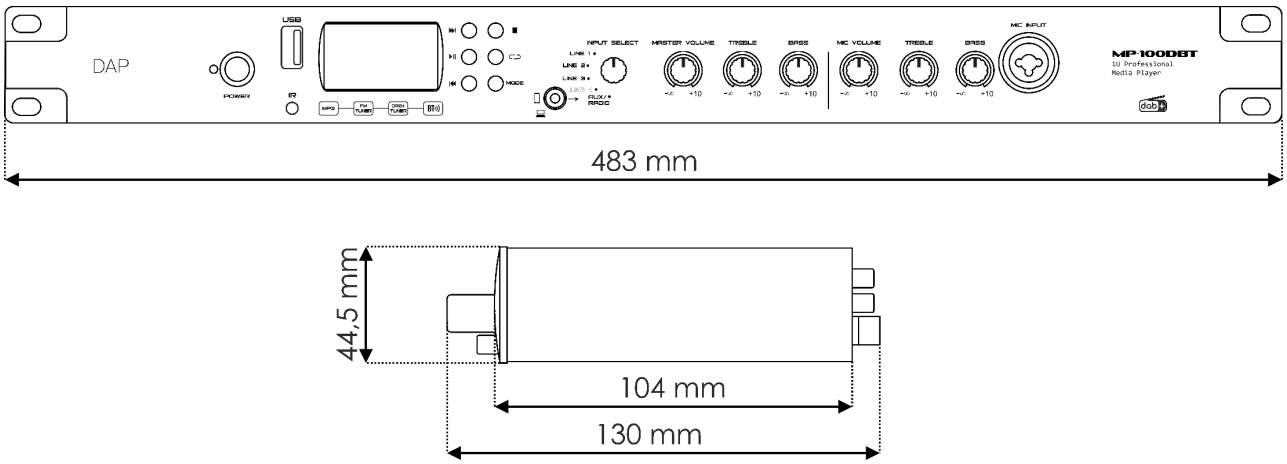


Fig. 04

4. Installation and Setup

4.1. Warnings and Precautions

Attention
Connect all data cables before supplying power.
Disconnect power supply before connecting or disconnecting data cables.

4.2. Safety Instructions for Installation

Attention
Make sure there is enough space for ventilation around the device.

Do not install near equipment that produces heat, for example amplifiers.

4.3. Installation Site Requirements

- The device must be installed only indoors.
- The device can be placed on a flat surface or mounted in a standard 19-inch rack.
- The maximum ambient temperature t_a = 40 °C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C.

4.4. Rack Mounting

The device can be mounted in a standard 19-inch rack. The device requires 1 rack unit (U) of space, which is 44,5 mm high.

Make sure that the rack is sufficiently secured to prevent it from becoming unstable or falling over.

To mount the device in a two-post rack, follow the steps below:

01) Insert 4 cage nuts in the openings on the rack posts where you want to mount the device.
02) Position the device in front of the rack posts so that the **4 x mounting openings (01)** on the flanges face the openings on the rack posts with cage nuts.
03) Using a screwdriver, mount the device to the rack posts with 4 screws.

Note: Make sure that the FM/DAB+ antenna points up.

4.5. Connecting to Power Supply



DANGER
Electric shock caused by short-circuit

The device accepts AC mains power at 220–240 V and 50 Hz. Do not supply power at any other voltage or frequency to the device.

The device is equipped with the **input voltage selector (20)** that can be used for selecting of the input voltage. Only skilled persons are allowed to operate the **input voltage selector (20)**. The selector is, by default, set to 230 V AC 50 Hz.

This device falls under IEC protection class I. Make sure that the device is always electrically connected to the ground (earth).

Before connecting the device to the socket-outlet:
- Make sure that the power supply matches the input voltage specified on the information label on the device.
- Make sure that the socket-outlet has ground (earth) connection.

Connect the device to the socket-outlet with the power plug.

4.6. Start-up

To connect and use the device, follow the steps below:

01) Make sure that the device is switched off. See **4.6.2. Switching On/Off** on page 13 for more information.
02) Connect the DAB+/FM antenna to the **DAB+/FM antenna connector IN (21)** and extend the antenna.
03) Connect input and output devices. See **4.6.1. Setup Example** on page 12.
    - To connect an amplifier, use the **RCA analog line-level connectors OUT (17)**, the **unbalanced 6,3 mm TS jack line-level connectors OUT (18)** or the **balanced 3-pin XLR line-level connectors OUT (19)**.
    - To connect a smartphone, MP3 player or a laptop, use the **balanced 3,5 mm TRS jack connector AUX IN (07)**. When this connector is in use, the internet radio will be muted.
    - To connect a dynamic microphone, use the **XLR/6,3 mm jack combo microphone connector IN (15)**.
    - To connect a CD player or a tuner, use the **(Line 1–4) RCA analog line-level connectors IN (16)**.
04) Turn the **input selector (08)** to set the input source.
05) Switch on the input devices (e.g. audio mixer, CD player).
06) Switch on the device. See **4.6.2. Switching On/Off** on page 13 for more information.

07) Set your preferred language and adjust other settings. See **5.3. Settings Menu** on pages 22–24 for more information.
08) Switch on the speakers.
09) Select functions. See **5.2. Functions** on pages 14–21 and **5.7. Remote Control** on pages 26–27 for more information.
10) Adjust the settings:
    - Turn up the volume controls on the device and set the characteristics of the media player. See **5.4. Adjusting Bass/Treble/Volume** on page 25 for more information.
    - Set the volume of the device. See **5.5. Setting Device Volume** on page 25 for more information.
    - Set the characteristics of the microphone. See **5.6. Adjusting the Microphone Settings** on page 25 for more information.

4.6.1. Setup Example

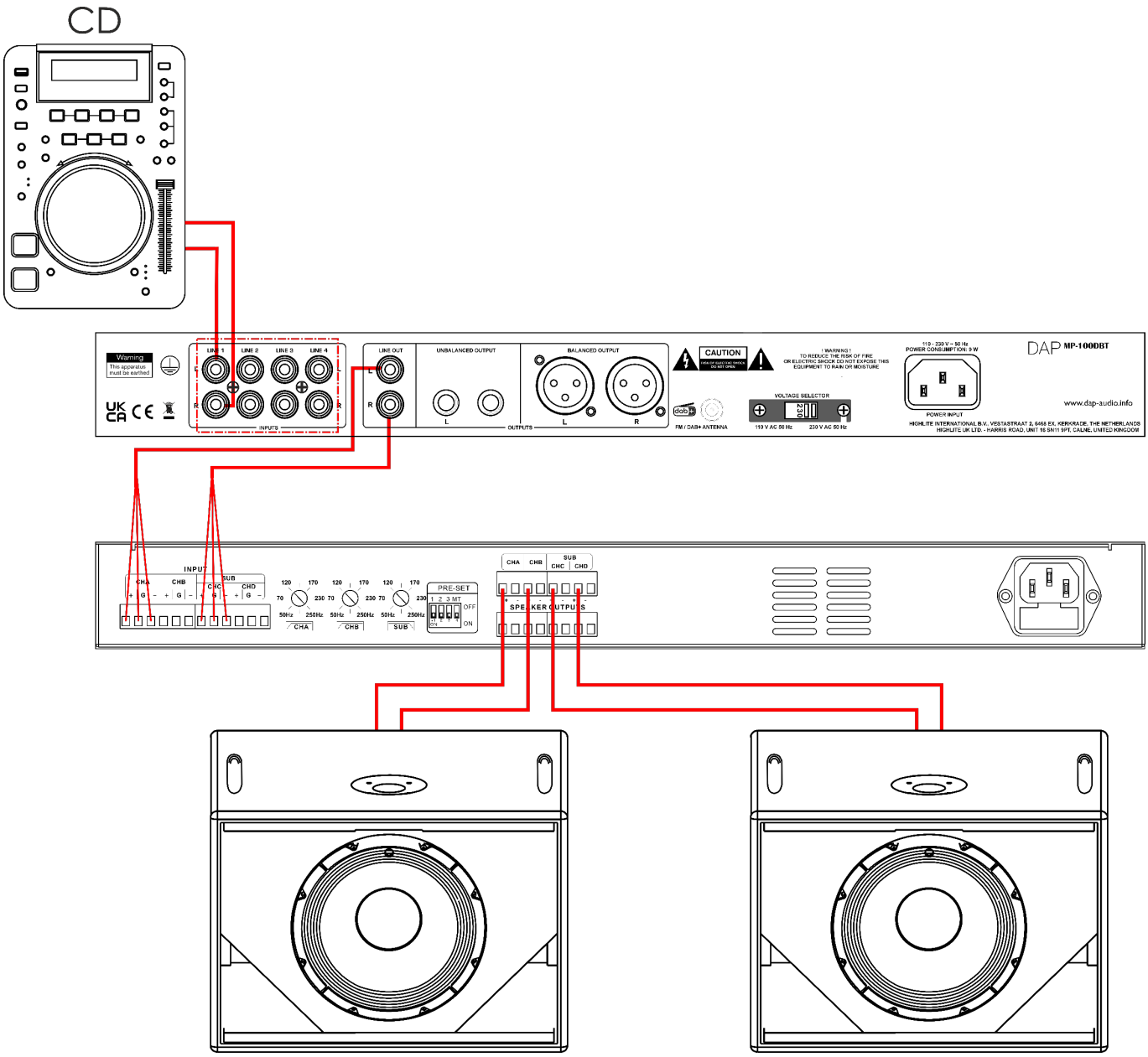


Fig. 05

4.6.2. Switching On/Off

The device has a power button.

- Press the **power button (03)** to switch on the device. If the **power LED indicator (Blue) (02)** is on, the device is powered.
- Release the **power button (03)** to switch off the device.

Upon start-up, the display shows the start screen (Fig. 06). If it is the first start-up, the device will search for DAB+ radio stations. It happens only once.

Press the **MODE button (F)** to enter the previously used function (Fig. 07).



Fig. 06



Fig. 07

Note:

If no button is pressed, after the pre-set amount of time of inactivity, the display will switch off. Press any button to switch the display on. See **5.3.8.1. Backlight** on page 24 for more information.

4.6.2.1. Stand-by

You can activate stand-by when you are not using the device.

- Press and hold down the **MODE button (F)** for 2 seconds to activate stand-by. The display shows the current time and date and the control buttons do not function.
- Press the **MODE button (F)** to deactivate stand-by. The display will return to the last used function mode.

5. Operation

5.1. Safety Instructions for Operation

Attention
This device must be used only for the purposes it is designed for.

This device is intended for use as a professional media player. It is suitable only for indoor installation.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

Attention
Power supply

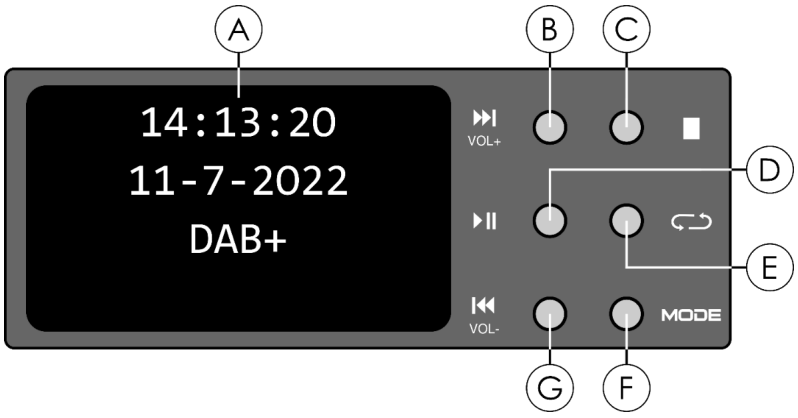
Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

5.2. Functions

The device can be operated in the following functions:

- FM: See **5.2.1. FM Radio Mode**
- Aux: See **5.2.2. Aux Mode**
- DAB+: See **5.2.3. DAB+ Mode**
- BT: See **5.2.4. BT Mode**
- USB: See **5.2.5. USB Mode**
- Microphone

The device can be operated with the control panel or with an infrared (IR) remote control (see **5.7. Remote Control** on page 26).



A) OLED display
B) VOLUME +/FORWARD button
C) STOP button
D) PLAY/PAUSE button
E) REPEAT button
F) MODE button
G) VOLUME –/BACKWARD button

Fig. 08

- Use the **VOLUME +/FORWARD** button to navigate through the main menu, to scroll through the available options, to stop auto scan, to manually tune the radio, to select radio stations/music files or to increase the volume.
- Use the **STOP** button to stop playback, to enter the settings menu, to return to a previous screen or to toggle radio station information screens.
- Use the **PLAY/PAUSE** button to start auto scan, to confirm your choices or to enter the submenus.
- Use the **REPEAT** button to set playback mode and to load/save presets.
- Use the **MODE** button to select functions or to return to the main menu.
- Use the **VOLUME –/BACKWARD** button to navigate through the main menu, to scroll through the available options, to stop auto scan, to manually tune the radio, to select radio stations/music files or to decrease the volume.

5.2.1. FM Radio Mode

In this menu you can search for FM radio stations, select them and listen to them. If needed, you can manually tune the radio stations and save presets.

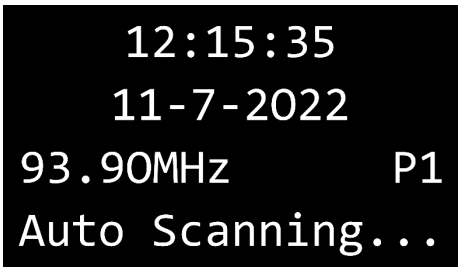
Press the **MODE button (F)** until the display shows:



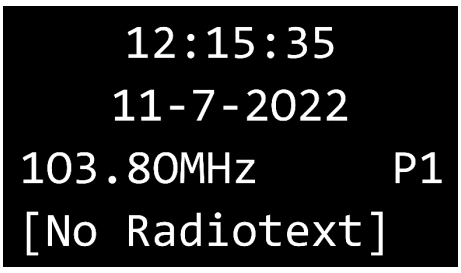
5.2.1.1. Auto Scan

In this menu you can search for available FM radio stations.

Press and hold down the **PLAY/PAUSE button (D)** for 2 seconds to start an auto scan. The display shows:



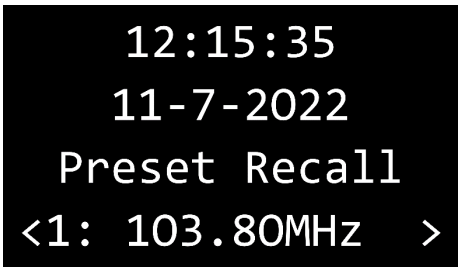
The device scans for all available FM radio stations and automatically saves them as presets. The device can save up to 30 FM presets. When a scan is complete, the device activates the first (P1) of the saved presets:



5.2.1.2. Selecting Radio Stations

In this menu you can select the saved FM presets.

01) Press the **REPEAT button (E)**. The display shows:



02) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the saved FM presets.
03) Press the **PLAY/PAUSE button (D)** to confirm. The device will activate the selected FM preset.

5.2.1.3. Manual Tuning and Saving Presets

If the sound quality of an FM preset is not good enough, you can tune it manually and save changes.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to manually tune the signal, in increments of 0,05 MHz.
02) Press and hold down the **REPEAT button (E)** for 2 seconds. The display shows:



03) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the 30 preset slots.
04) Press the **PLAY/PAUSE button (D)** to confirm. The changes are saved and the display shows:



5.2.1.4. Viewing Radio Station Information

You can view the information about the currently active radio station.

Repeatedly press the **STOP button (C)** to toggle different information screens, such as time, date, name of the radio station, music genre, frequency and signal type.

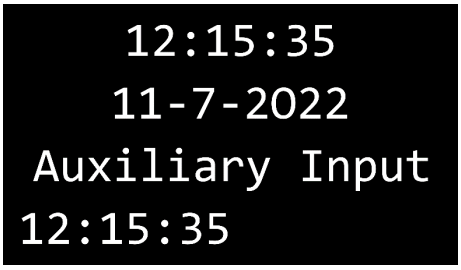
Note:

The contents of each screen depend on the currently active radio station. Some radio stations do not display any information.

5.2.2. Aux Mode

In this menu you can play music files from the audio devices connected to the **Balanced 3,5 mm TRS jack connector AUX IN (07)** or to the **(Line 1–4) RCA analog line-level connectors IN (16)**.

Press the **MODE button (F)** until the display shows:



Turn the **input selector (08)** to activate a desired input.

5.2.3. DAB+ Mode

In this menu you can search for DAB+ radio stations, select them and listen to them. If needed, you can save selected radio stations as presets, to be able to access them easily.

Press the **MODE button (F)** until the display shows:



5.2.3.1. Auto Scan

In this menu you can search for available DAB+ radio stations.

Press and hold down the **PLAY/PAUSE button (D)** for 2 seconds to start an auto scan. The display shows:



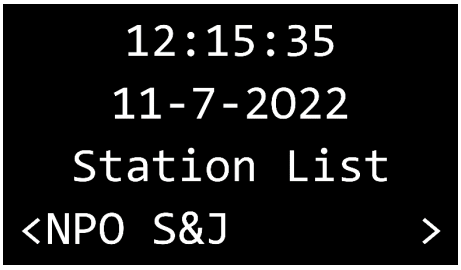
The device scans for all available DAB+ radio stations and it shows (in real-time) the number of found DAB+ radio stations. When a scan is complete, the device activates the first of the found radio stations:



5.2.3.2. Selecting Radio Stations

In this menu you can select the found DAB+ radio stations.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the found DAB+ radio stations. The display shows:

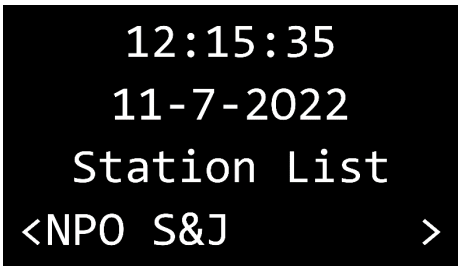


02) Press the **PLAY/PAUSE button (D)** to confirm. The device will activate the selected DAB+ radio station.

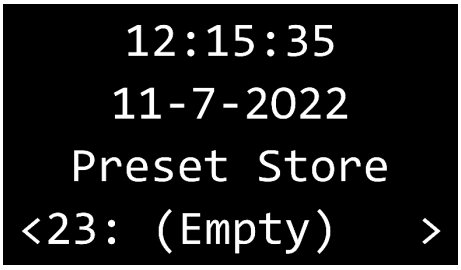
5.2.3.3. Saving Presets

If you want to listen to only a few DAB+ radio stations, you can save them as presets, for easy access. The device can save up to 30 DAB+ presets.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the found DAB+ radio stations. The display shows:



02) Press the **PLAY/PAUSE button (D)** to confirm. The device will activate the selected DAB+ radio station.
03) Press and hold down the **REPEAT button (E)** for 2 seconds. The display shows:



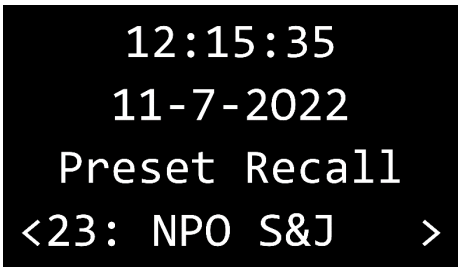
04) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the 30 preset slots.
05) Press the **PLAY/PAUSE button (D)** to confirm. The changes are saved and the display shows:



5.2.3.4. Selecting Presets

In this menu you can listen to the previously saved DAB+ presets.

01) Press the **REPEAT button (E)**. The display shows:



02) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the saved DAB+ presets.
03) Press the **PLAY/PAUSE button (D)** to confirm. The device will activate the selected DAB+ preset.

5.2.3.5. Viewing Radio Station Information

You can view the information about the currently active radio station.

Repeatedly press the **STOP button (C)** to toggle different information screens, such as time, date, radio station name, signal strength, music genre, country of origin, signal error report, frequency and data transfer speed.

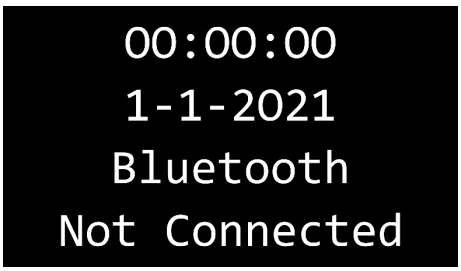
Note:

The contents of each screen depend on the currently active radio station. Some radio stations do not display any information.

5.2.4. BT Mode

In this menu you can stream BT signals from your mobile devices (smartphones, tablets, notebooks, etc.).

Press the **MODE button (F)** until the display shows:



For this function to work, you need to pair your mobile device and the MP-100DBT via BT.

Note:

BT can only be used as a means to receive wireless audio signals. It is not possible to pair the device with other devices via BT.

To use the device in the BT mode:

01) Start BT on your mobile device.
02) On your mobile device scan for the available BT devices. The ID of the MP-100DBT is "BT".
03) Pair your mobile device with the MP-100DBT. The display shows:



04) On your mobile device, search for and play any music/video file or visit streaming services. The MP-100DBT will receive signals from your mobile device.

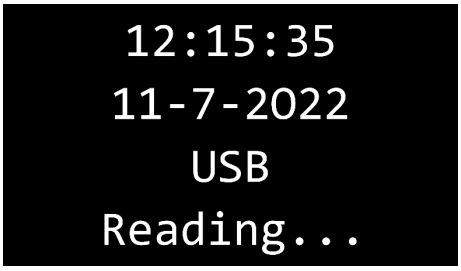
Note:

When your mobile device receives an incoming call, playback will stop automatically. When the conversation is finished, you need to resume playback manually.

5.2.5. USB Mode

In this menu you can play music files from a USB flash drive. Insert a USB flash drive into the **USB-A connector IN (04)**. The device will automatically read the WAV, FLAC or MP3 files from the USB flash drive.

The display shows:



Note:

The USB flash drive should be FAT32-formatted and its maximum capacity should not exceed 32 GB.

If the inserted USB flash drive is compatible, the device will automatically start playing the first music file. The display shows:



5.2.5.1. Playback

Use the **PLAY/PAUSE button (D)** to start or pause playback.

- Press the **PLAY/PAUSE button (D)** to play the currently selected file.
- Press the **PLAY/PAUSE button (D)** again to pause the playback.

5.2.5.2. Select Previous/Next File

Use the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select files backward/forward.

5.2.5.3. Viewing Playback Status

You can view playback status.

Repeatedly press the **STOP button (C)** to toggle different information screens, such as time, date, currently selected file, total number of files and playback time.

5.2.5.4. Playback Modes

You can decide how music files will be played.



Repeatedly press the **REPEAT button (E)** to select one of the 4 playback modes.

- ONE: The device plays only one file.
- FLD: The device plays only one folder.
- RAN: The device plays random files.
- ALL: The device plays all files.

5.3. Settings Menu

This menu contains all settings and device information.

Press and hold down the **STOP button (C)** for 2 seconds to enter the menu. The display shows:



The settings menu is visible in the bottom line of the display.

The table below shows the different settings for each function.

Settings	FM Mode	Aux Mode	DAB+ Mode	BT Mode	USB Mode
Audio setting	Yes	No	No	No	No
Scan setting	Yes	No	No	No	No
Full Scan	No	No	Yes	No	No
Manual Tune	No	No	Yes	No	No
DRC	No	No	Yes	No	No
Prune	No	No	Yes	No	No
TA	No	No	Yes	No	No
System	Yes	Yes	Yes	Yes	Yes

- Use the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select settings.
- Use the **PLAY/PAUSE button (D)** to enter submenus and to confirm your choices.

5.3.1. Audio Setting

In this submenu you can adjust the FM audio settings.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the 2 options:
   - FORCED MONO: The device will use one channel to convert a signal to sound.
   - STEREO ALLOWED: The device will use multiple channels to convert multiple signals to sound.

02) Press the **PLAY/PAUSE button (D)** to confirm.

5.3.2. Scan Setting

In this submenu you can adjust the FM search settings.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the 2 options:
   - STRONG STATIONS ONLY: The device searches and saves only the strongest FM radio stations.
   - ALL STATIONS: The device searches and saves all available FM radio stations.

02) Press the **PLAY/PAUSE button (D)** to confirm.

5.3.3. Full Scan

In this submenu the device automatically searches for DAB+ radio stations.

Press the **PLAY/PAUSE button (D)** to start auto scan.

5.3.4. Manual Tune

In this submenu you can manually search for DAB+ radio stations.

If the signal quality of a DAB+ radio station is too low, that radio station will not be found in an auto scan. If you know the exact Band III DAB+ channel (5A–13F) assigned to that radio station, you can find it manually.

To select the DAB+ channel of a radio station:

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the Band III digital radio channels (5A–13F).
02) Press the **PLAY/PAUSE button (D)** to confirm.

Note:

If necessary, try to improve the signal quality (put the device in a different place, move the antenna closer to the window, etc.) until the signal quality is good enough.

5.3.5. DRC

In this submenu you can set Dynamic Range Compression (DRC). This function decreases the volume of loud sounds and increases the volume of quiet sounds.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the 3 options:
    - DRC OFF
    - DRC HIGH
    - DRC LOW
02) Press the **PLAY/PAUSE button (D)** to confirm.

5.3.6. Prune

In this submenu you can remove DAB+ radio stations that do not transmit anymore or changed frequency.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select YES or NO.
02) Press the **PLAY/PAUSE button (D)** to confirm.

5.3.7. TA

In this submenu you can switch traffic announcement (TA) messages on or off.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select ON or OFF.
02) Press the **PLAY/PAUSE button (D)** to confirm.

5.3.8. System

In this menu you can adjust the system settings. This menu is visible in all functions. You can adjust the display settings, set language, restore default factory settings or view the firmware version.

Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the 4 submenus:

- BACKLIGHT: See **5.3.8.1. Backlight**
- LANGUAGE: See **5.3.8.2. Language**
- FACTORY RESET: See **5.3.8.3. Factory Reset**
- SW VERSION: See **5.3.8.4. Software Version**

- Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select submenus and select options.
- Press the **PLAY/PAUSE button (D)** to enter submenus and confirm your choices.

5.3.8.1. Backlight

In this submenu you can adjust the display settings.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the 3 submenus:
    - TIMEOUT: You can determine after how many seconds of inactivity the backlight of the OLED display will switch off. Choose ON (display continuously on) or 10/20/30/45/60/90/120/180 seconds.
    - ON LEVEL: Display brightness. Choose LOW, MEDIUM or HIGH.
    - DIM LEVEL: Letter brightness when the backlight is off. Choose LOW, MEDIUM or HIGH.
02) Press the **PLAY/PAUSE button (D)** to enter submenus.

5.3.8.2. Language

In this menu you can set the menu language.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select one of the 9 options:
    - ENGLISH
    - DEUTSCH (German)
    - ITALIANO (Italian)
    - FRANÇAIS (French)
    - NEDERLANDS (Dutch)
    - ESPAÑOL (Spanish)
    - NORSK (Norwegian)
    - SVENSKA (Swedish)
    - PORTUGUÊS (Portuguese)
02) Press the **PLAY/PAUSE button (D)** to confirm.

5.3.8.3. Factory Reset

In this submenu you can restore the default factory settings.

01) Press the **VOLUME +/FORWARD button (B)** and the **VOLUME –/BACKWARD button (G)** to select YES or NO.
02) Press the **PLAY/PAUSE button (D)** to confirm.

5.3.8.4. Software Version

In this submenu you can view the currently installed software version.

The current software version is: V5.0.04.DAB055.32501.

5.4. Adjusting Bass/Treble/Volume

Turn the **master volume control (09)** to the left/right to decrease/increase the master volume.
The adjustment range is from –∞ to +10 dB. This setting affects the overall volume of all outputs.

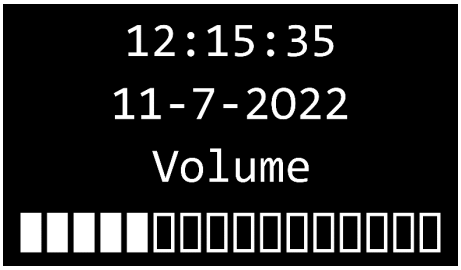
Turn the **treble level control (10)** to the left/right to decrease/increase the treble level. The adjustment range is from –∞ to +10 dB.

Turn the **bass level control (11)** to the left/right to decrease/increase the bass level. The adjustment range is from –∞ to +10 dB.

5.5. Setting Device Volume

It is possible to set the volume of the device in all 4 functions.

Press and hold down the **VOLUME +/FORWARD button (B)** or the **VOLUME –/BACKWARD button (G)** to increase/decrease the volume. The display shows:



The adjustment range is from left to right, from low to high volume.

5.6. Adjusting the Microphone Settings

Turn the **microphone level control (12)** to the left/right to decrease/increase the microphone volume. The adjustment range is from –∞ to +10 dB.

Turn the **microphone treble level control (13)** to the left/right to decrease/increase the treble level. The adjustment range is from –∞ to +10 dB.

Turn the **microphone bass level control (14)** to the left/right to decrease/increase the bass level. The adjustment range is from –∞ to +10 dB.

5.7. Remote Control

The device can be controlled with an IR remote control. The remote control is included in the delivery.

5.7.1. Installation of the Batteries

The supplied remote control is delivered without batteries. It accepts 2 x AAA 1,5 V (alkaline) batteries. To install the batteries:

01) Press on the battery compartment cover and move it down to open (Fig. 09).
02) Insert 2 x AAA 1,5 V batteries into the battery housing (Fig. 10).
03) Close the battery compartment cover (Fig. 11).

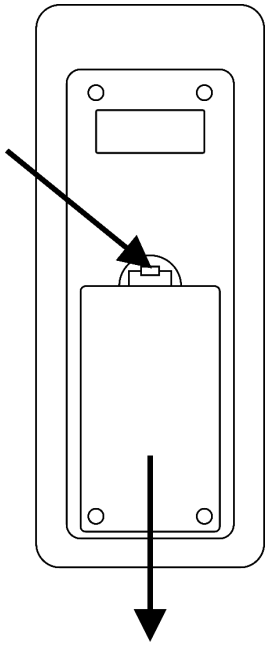


Fig. 09

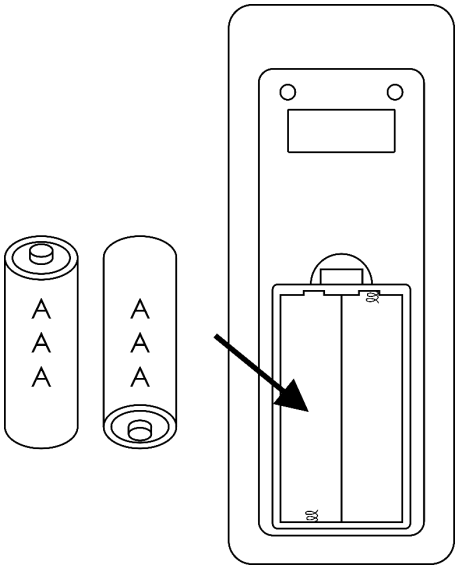


Fig. 10

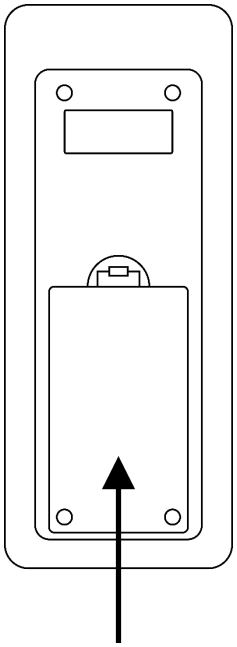


Fig. 11

Note:

Make sure that you install the batteries with correct polarity orientation.

5.7.2. Remote Control Functions

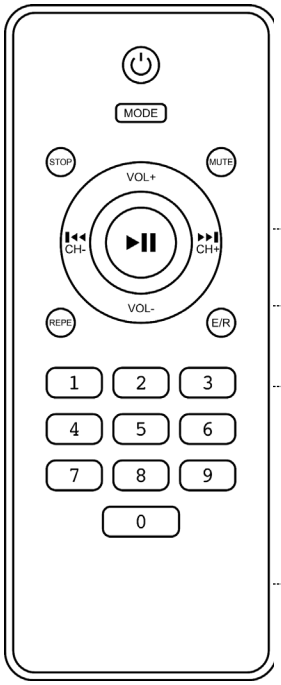


Fig. 12

Button	Description	Function
	On/Off	Switches stand-by mode on/off
MODE	Toggle	Toggle functions
0 — 9		• Press to select presets (FM/DAB+) • Press and hold down for 2 seconds to save presets (FM/DAB+)
STOP	Stop	• Press to stop playback (BT/USB) • Press and hold down for 2 seconds to enter the settings menu (all functions) • Press to return to a previous screen (all functions) • Press to toggle information screens (all functions)
MUTE	Mute	Switches mute on/off (all functions)
CH-	Channel/file –	• Press to navigate through the main menu (all functions) • Press to scroll through the available options (all functions) • Press to stop auto scan (FM) • Press to manually tune the radio (FM/DAB+) • Press to select radio stations/music files (all functions)
CH+	Channel/file +	
	Play/Pause	• Press to start auto scan (FM/DAB+) • Press to confirm choices (all functions) • Press to enter submenus (all functions)
VOL-	Volume –	Decrease/increase the volume
VOL+	Volume +	
REPE	Repeat	• Press to set playback mode (USB) • Press to select presets (FM/DAB+) • Press and hold down for 2 seconds to save presets (FM/DAB+)
E/R	E/R	No function

6. Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage. Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	• Check if power is switched on and cables are plugged in
	Internal fuse is blown	• Return the device to your DAP dealer
No sound	The volume is set to minimum	• Increase the volume
Some radio stations do not work	Stations are not broadcasting at this time of the day (time zone)	• Try again later
	The maximum number of listeners is reached	
DAB+ or FM does not work	The signal is weak	• Reset the device's parameters to the default factory settings. See **5.3.8.3. Factory Reset** on page 24 • Extend the antenna • Check if there are electrical devices that cause interference
Playback stutters (buffering)	Bandwidth is too low or busy	• Test reception with another station
The device does not respond to the remote control	The remote control is outside the range of the sensor of the infrared port	• Walk closer to the device or change the angle at which you point the remote control to the device. See **5.7. Remote Control** on page 26
	The batteries in the remote control are depleted	• Change the batteries of the remote control

7. Maintenance

7.1. Safety Instructions for Maintenance



DANGER
Electric shock caused by dangerous voltage inside

Disconnect power supply before servicing or cleaning.

7.2. Preventive Maintenance



Attention
Before use, examine the device visually for any defects.

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- There are no deformations on housings, fixations and installation points.
- The power cables are not damaged and do not show any material fatigue.

7.2.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for 5 minutes.
03) Clean the device with a soft, lint-free cloth.



Attention

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.

7.3. Corrective Maintenance

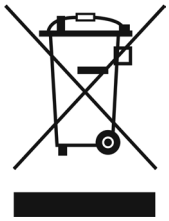
The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

8. Deinstallation, Transportation and Storage

- Disconnect power supply before deinstallation.
- Use the original packaging to transport the device, if possible.
- Clean the device before storing. Follow the cleaning instructions in chapter **7.2.1. Basic Cleaning Instructions** on page 29.
- Store the device in the original packaging, if possible.

9. Disposal



Correct disposal of this product

Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

10. Approval

CE

UK CA

Hereby, Highlite International declares that the device MP-100DBT, product code D1246, is in compliance with Directive 2014/53/EU (RED – Radio Equipment Directive).

The full text of the EU declaration of conformity is available at the respective product page on the website of Highlite International (www.highlite.com).

DAP

©2022 DAP