

**ENGLISH**

**PSS-108 MKII**

**Ordercode: D2608**

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## Warning



**For your own safety, please read this user manual carefully  
before your initial start-up!**



### Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

#### Your shipment includes:

- 1x Wireless Microphone
- IEC cable (175cm)
- User manual



**CAUTION!**  
**Keep this device away from rain and moisture!**  
**Unplug mains lead before opening the housing!**



### Safety Instructions

Every person involved with the installation, operation and maintenance of this system has to:

- be qualified
- follow the instructions of this manual



**CAUTION! Be careful with your operations.**  
**With a dangerous voltage you can suffer  
a dangerous electric shock when touching the wires!**



Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the system.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the system are not subject to warranty.

This system contains no user-serviceable parts. Refer servicing to qualified technicians only.

**IMPORTANT:**

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

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- Do not insert objects into air vents or bassreflex ports.
- Do not connect this system to a dimmerpack.
- Do not switch the system on and off in short intervals, as this would reduce the system's life.
- Do not open the device and do not modify the device.
- Do not drive the inputs with a signal level bigger, than required to drive the equipment to full output.
- Only use system indoor, avoid contact with water or other liquids.
- Avoid flames and do not put close to flammable liquids or gases.
- Always disconnect power from the mains, when system is not used. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Always operate the unit with the AC ground wire connected to the electrical system ground.
- Make sure you don't use the wrong kind of cables or defective cables.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the system and the power-cord from time to time.
- Please turn off the power switch, when changing the power cord or signal cable, or select the input mode switch.
- Extreme frequency boosts in connection with a high input signal level may lead to overdriving your equipment. Should this occur, it is necessary to reduce the input signal level by using the input control.
- Avoid ground loops! Always be sure to connect the power amps and the mixing console to the same electrical circuit to ensure the same phase!
- If system is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the system has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your system. Leave the system switched off until it has reached room temperature.
- If your Dap Audio device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Dap Audio dealer for service.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- For replacement use fuses of same type and rating only.
- **WARRANTY:** Till one year after date of purchase.

**Operating Determinations**

This system is not designed for permanent operation. Consistent operation breaks will ensure that the system will serve you for a long time without defects.

If this system is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, etc.


You endanger your own safety and the safety of others!

Improper installation can cause serious damage to people and property !

## Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NULL
	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

## Improper installation can cause serious damage to people and property!



### Return Procedure



Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail [offersales@highlite.nl](mailto:offersales@highlite.nl) and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

**Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:**

- 01) Your name
- 02) Your address
- 03) Your phone number
- 04) A brief description of the symptoms

## Claims

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

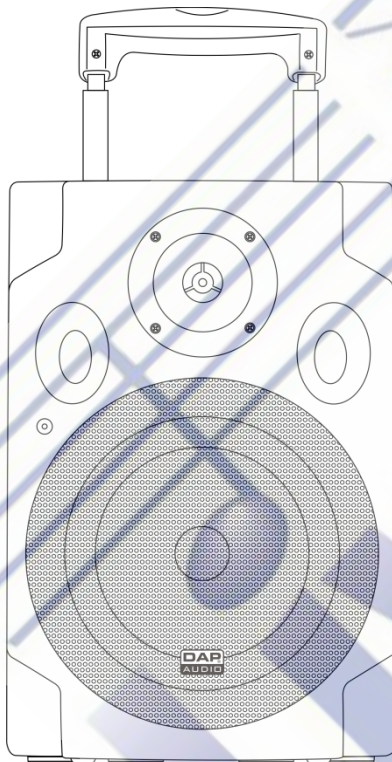
## Description of the device

### Features

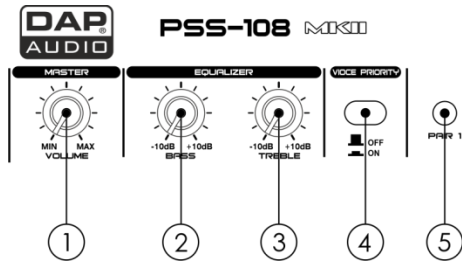
The PSS-series MKII is the successor of the PSS-series with a complete new design in a lightweight ABS housing. The PSS-series MKII is a complete portable PA system powered by an internal battery. When it is used on mains power the battery will be charged automatically. The built-in charger has an overload protection circuit and a battery level indicator. The PSS-series MKII is equipped with a USB player, a four channel audio mixer for microphone and line signals and a 2.4Ghz wireless microphone system. The mixer has master volume, bass and treble control and a talk over function. To connect the PSS-series MKII with a second PA system it has a dedicated line output. It is an all in one concept that is very easy to use at events and places where you don't have access to a main power supply like:

- Fair events
- Theme parks
- Sport events
- Outdoor church services
- Street musicians
- Product presentations

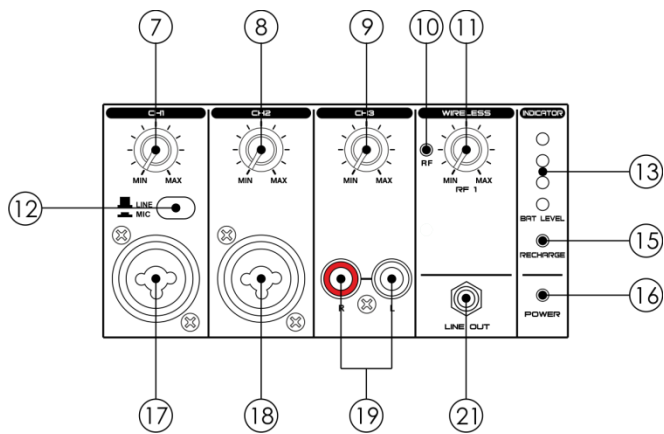
### Overview



## Names and Functions

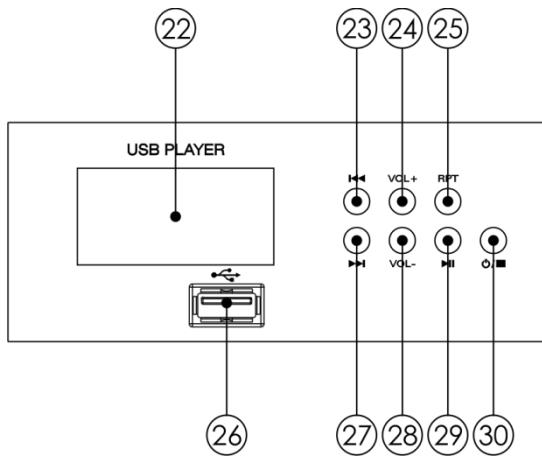


- ① **Master volume control:**  
This is main master control used for adjusting the main output level.
- ② **Low frequency control;  $\pm 10$  dB at 100 Hz**  
Use this control to adjust the bass frequencies.
- ③ **High frequency control;  $\pm 10$  dB at 10 kHz**  
Use this control to adjust the high frequencies.
- ④ **Voice priority**  
Decreases the volume of all channels, except microphone 1 and the (1 or 2) wireless mic(s)
- ⑤ **Pair button microphone channel 1**  
Press and hold for about 5 seconds to enter in pairing status.

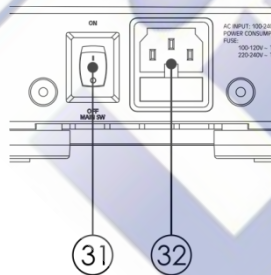


- ⑦ **Volume control Channel 1**  
Use this control to adjust the volume of the **mic/line 1** channel input (17)
- ⑧ **Volume control Channel 2**  
Use this control to adjust the volume of the **mic 2** channel input (18)
- ⑨ **Volume control Channel 3**  
Use this control to adjust the volume of the **line 3** channel input (19)
- ⑩ **Connection indicator wireless microphone 1**  
Pairing status indicator:  
Blinking: In pairing status  
Continuous: Microphone connected with PSS-108 MKII
- ⑪ **Volume control wireless microphone 1**  
Use this control to adjust the volume of the **wireless microphone 1**
- ⑫ **Line / Mic. Switch**  
Select the input source on Channel 1 (Line / Mic)
- ⑬ **Battery level indicator**  
Battery status
- ⑭ **Volume control wireless microphone 02**  
Use this control to adjust the volume of the **wireless microphone 2**
- ⑮ **Recharge indicator**  
When charging, the LED is burning continuously
- ⑯ **Power LED indicator**  
This LED indicates when the power is switched on.
- ⑰ **Line / Mic in connector 1**  
This combined jack can be used to connect a mono signal, such as a XLR microphone or a 1/4" jack connector which connects to line-level signal sources.
- ⑱ **Mic in connector 2**  
The balanced XLR input connects to microphones.
- ⑲ **RCA unbalanced input Channel 3**  
These are unbalanced stereo RCA pin jacks.
- ⑳ **Signal indicator wireless microphone 2**  
Pairing status indicator:  
Blinking: In pairing status  
Continuous: Microphone connected with PSS-108 MKII
- ㉑ **Line out**  
Connect to the line input of a Mixer.



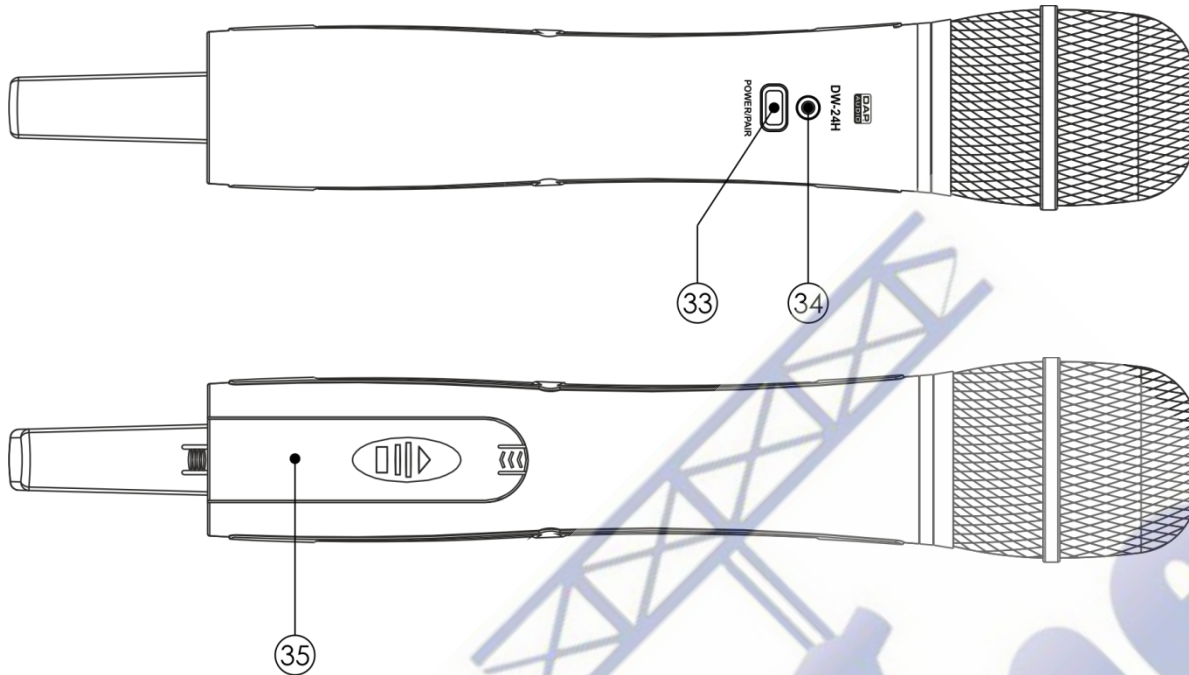


- ②② **Display**  
All the USB player information is monitored through this display.
- ②③ **Previous track**  
Use this button to go back to the beginning of the current track or select a previous track for playing.
- ②④ **Increase volume**  
Press the VOL+ button to increase the volume.
- ②⑤ **Repeat All - 1 - A (Shuffle play)**  
Use this button to repeat one track, one folder or all tracks.  
Repeat All: Plays the complete medium several times, the symbol on the screen is   
Repeat: Repeats a single track several times, the symbol on the screen is   
Random play: All tracks will be played back in random order, the symbol on the screen is A.
- ②⑥ **USB Port**  
Allows the connection of any USB memory stick.
- ②⑦ **Next track**  
Use this button to skip to the next track.
- ②⑧ **Decrease volume**  
Press the VOL- button key to decrease the volume.
- ②⑨ **Play / Pause**  
Use this button to start playback. Press once to start playback, twice to set the pause mode and again to resume playback.
- ③① **Power on-off / Stop**  
Press to turn on the power of the USB player.  
During playback press this button to stop playback.



- ③① **Power switch On/Off**
- ③② **Input AC power socket with main fuse**

## Wireless Microphone



### Power/Pair button

- ③③
- Power on/off the microphone by pressing and holding it for about 0.5 seconds
  - Pair the transmitter and receiver by pressing and holding it for about 5 seconds

### LED indicator

- ③④
- ON = the microphone is on or/ and in pair
  - OFF = the microphone is off

### Battery cover

- ③⑤
- Press and slide out the battery cover to insert 2 AA alkaline batteries

## Installation

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Remove all packing materials from the PSS-108 MKII. Check that all foam and plastic padding is removed. Connect all cables.

**Always disconnect from electric mains power supply before cleaning or servicing.  
Damages caused by non-observance are not subject to warranty.**

## Set Up and Operation

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Before plugging the unit in, always make sure that the power supply matches the product specification voltage. The power supply is printed on the back of the device.

Do not attempt to operate an 115V specification product on 230V power, or vice versa.

Connections:

- 01) Turn off the **power (31)** switch.
- 02) Connect the PSS to your other devices you plan on using.

CAUTION: Be sure that the power is off, when connecting the cables.

### Operating on AC power

- Make sure the **power (31)** switch is in the Off position and connect the power cable.
- Switch the **power (31)** switch in the On position to run the PSS. The **power (16)** LED will light red.

### Operating on battery power

- Do not connect the power cable.
- Switch the **power (31)** switch to the On position to run the device.
- Switch the **power (31)** switch to the Off position if you're pausing, to save your batteries.
- If the batteries are fully charged, the PSS can run on battery power for approximately 3-5 hours, depending on the volume level.
- If the batteries run low and/or the orange LED of the battery level indicator **(13)** lights up, please turn the PSS Off and recharge the battery.

### Note:

The battery in the PSS should not be fully depleted. Charge it when it is low, but do not let it drain fully. On the other hand, constant top off charging of a battery is never good.

Any charging adds heat and unfortunately heat degrades a battery. There is no escaping that.

Storage in a cool place slows the aging process of lithium-ion (and other chemistries). Manufacturers recommend storage temperatures of 15°C.

### Charging the built in batteries

- Make sure the **power (31)** switch is in Off position and connect the power cable.
- Switch the **power (31)** switch to the On position to charge the PSS's internal batteries.
- While the PSS is charging, the red **recharge (15)** LED will light red.
- Charge the batteries for at least 8 hours. If the batteries are fully charged, the red **recharge (15)** LED lights up continuously.

## USB/MP-3 Operations

### MP3 USB cards

MP3 is an audio compression mode using level 3 of the international MPEG standard, whereby the sound signal is compressed at the ratio of 12:1. An MP3 disc can record music for playback over 600 minutes or record over 170 songs in MP3 sound quality. A USB stick or SD/MMC card can record even more.

The file system should be FAT16 or FAT32. The maximum capacity is 64 Gb.

### Selecting Tracks

- Push the **▶▶ (27)** or **◀◀ (23)** button to move to a higher or lower track.
- When a new track is selected during playback, playback begins as soon as the skip search operation is completed.
- If the **▶▶ (27)** button is pushed while at the last track, the first track is selected. In the same way, if the **◀◀ (23)** button is pushed while at the first track, the last track will be selected.

### Starting Playback

- Push the **▶|| (29)** button during the pause or stop condition to start playback.

### Pausing

- Push the **▶|| (29)** button to switch between play and pause.
- Playback resumes when the **▶|| (29)** button is pushed again.

### Stop Playback

- Push the **⏻/■ (30)** button during playback to stop playback.

### USB Player Volume Increase

- Press the **VOL+ (24)** button to increase the volume.

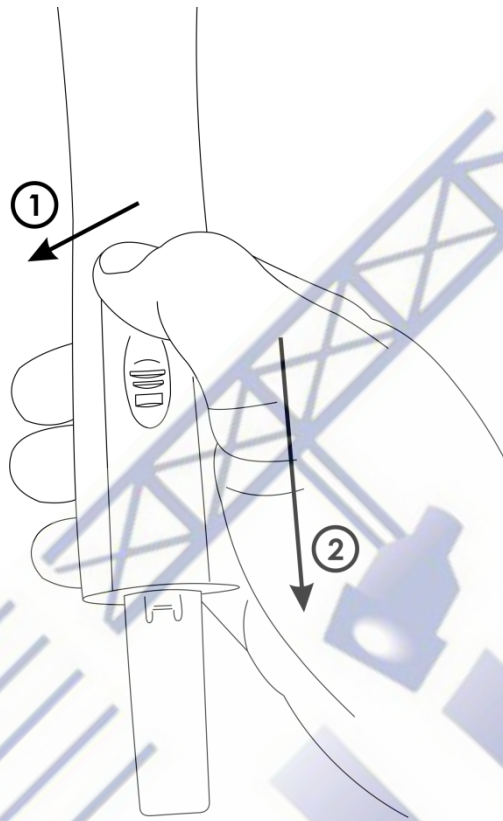
### USB Player Volume Decrease

- Press the **VOL- (28)** button key to decrease the volume.

## Operation of the wireless microphones

### Inserting/replacing the battery

We recommend powering the microphone by using 2 AA batteries.



- Push down **(1)** the cover in the direction of the arrow.
- Slide **(2)** the cover in the direction of the arrow.
- Insert the battery. Please observe correct polarity when inserting the batteries.
- Close and lock the battery cover.

### Tips for achieving maximum performance.

- Make sure you can always see a receiver antenna from the transmitter position.
- Keep the distance from transmitter to receiver antenna as short as possible.
- Point the receiver antennas away from each other at 45 degrees angle from vertical position.
- Avoid placing the receiver antennas near metal surfaces and obstructions.
- Replace battery as soon as low battery LED lights.
- Perform a walk-through before performance or presentation. If dead spots are found, adjust the location of the receiver. If dead spots remain, mark the dead spots and avoid them.

## Product Specification

Power Supply	AC: 100V-240V Battery: 22.2V(Lithium battery)
System Type	2-Way Active Vented Speaker
Transducer Low	8" Woofer, 1.5" Voice coil
Transducer driver	1" Ferrite Driver, 1" Voice coil
Horn Coverage H° x V°	130° H x 130° V
Frequency Response(-6dB)	65Hz-20KHz
Crossover Frequency	5KHz
Max SPL	100dB Max
AMP Power Output	RMS:100W(AC)(LF-Class D 80W&HF-Class D 20W)
Equalizer Controls	BASS: ±10dB (at 100Hz) TREBLE: ±10dB (at 10kHz)
External Controls	Master Volume Controls : Mic & Line Switch: MIC1, MIC2 AUX each Volume Controls; Wireless Volume Controls; Voice Priority Switch; Power Indicators; Recharged Indicators; Battery Level Indicators; RF Signal Indicators
Voice Priority	MIC1 and Wireless
Signal to noise ratio	Mic:>70dB Line:>75dB
Battery charge time	Less than 5 hours
Battery use time	More than 2 hours (Regular Play)
Wireless Frequency band	2.4GHz
Built-in player	MP3 – USB Player
Enclosure Construction	Plastic cabinet, trapezoidal ,metal grille, rubber foot ,handle.
Mounting	36MM standard pole-mount
Dimensions(HxWxD)	415(H)X277(W)X256(D)mm
Net Weight	8.3(KG)

### Dimensions

