ENGLISH

MA-8120PM Paging Microphone   V1

Ordercode: D6197

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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 device must be returned to the factory, it is important that the device is returned in the original factory box and packing.

Your shipment includes:

- DAP Audio MA-8120PM Paging Microphone
- 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 the 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 device.

- Never remove warning or informative labels from the unit.
- Never leave any cables lying around.
- Do not open the device and do not modify the device.
- Do not connect this device to a dimmer pack.
- Do not switch the system on and off in short intervals, as this would reduce the system's life.
- Only use device indoors, 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 device is not used or before cleaning! Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Make sure you do not use the wrong kind of cables or defective cables.
- Make sure that the power cord is never crimped or damaged. Check the system and the power cord from time to time.
- If system is dropped or struck, disconnect the 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.
- 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	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

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 aftersales@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 short-comings 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

The DAP MA-8120PM Paging Microphone is a dedicated paging microphone for the MA-8120 Digital Zone Amplifier. It allows you to page any selected zone or all zones. It has a built-in chime and talk-over functions. The volume of the microphone can be set on the rear of the microphone.

Features
- Rated output level: 0dB / 600Ohm, balanced
- Input sensitivity: -60dB / 600Ohm, balanced
- Frequency response: 45Hz – 15kHz
- T.H.D.: < 0,1%
- Zones: 4
- Dimensions: 203 x 139 x 470 mm (LxWxH)
- Weight: 0,9 kg

Dedicated for
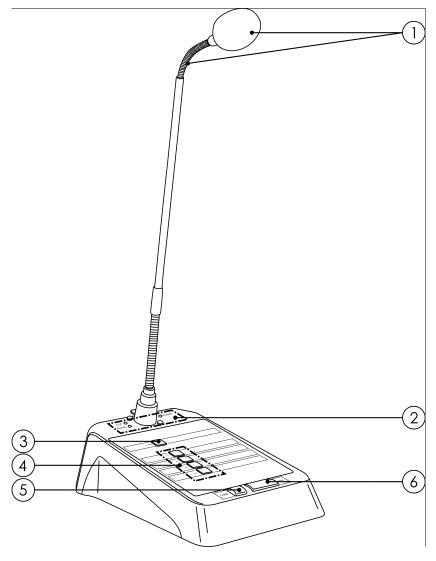**D6195** MA-8120 Digital Zone Amplifier

Frontside

Fig. 01

① **Goose neck + microphone head**
Adjust the height of the microphone head and the distance between your mouth and the microphone. The distance should not be bigger than 30 cm. Otherwise, sound transmission may be affected.

② **LED indicators**
- CLIP: The indicator lights up when the signal's output level is too high. Reduce the volume for undistorted performance.
- SIGNAL: The indicator lights up when communication data is available.
- POWER: Power indicator

③ **ALL button**
Press the button to select/deselect all 4 zones.

④ **Zone buttons 1-4**
Press the buttons to select/deselect the desired zones (1-4).

⑤ **CHIME button**
Press the button to play the chime tone for the selected zones.

⑥ **TALK button**
Press and hold down the button and speak to the microphone, in order to make announcements for the selected zones.
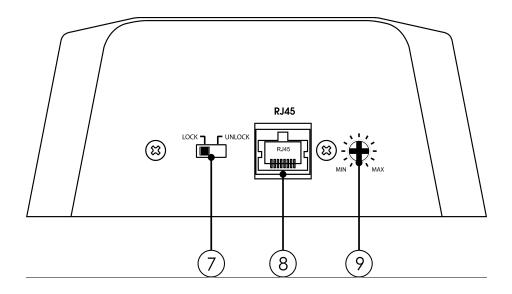
Backside

Fig. 02

⑦ **LOCK/UNLOCK switch**
When the switch is in LOCK position, it is not possible to select/deselect the zones.

⑧ **RJ45 connector IN**
Connect the MA-8120PM to the MA-8120 Digital Zone Amplifier by means of a CAT-5 cable.

⑨ **Output level control**
Turn the control to adjust the output level.

Installation

Remove all packing materials from the MA-8120PM Paging Microphone. Check if 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.
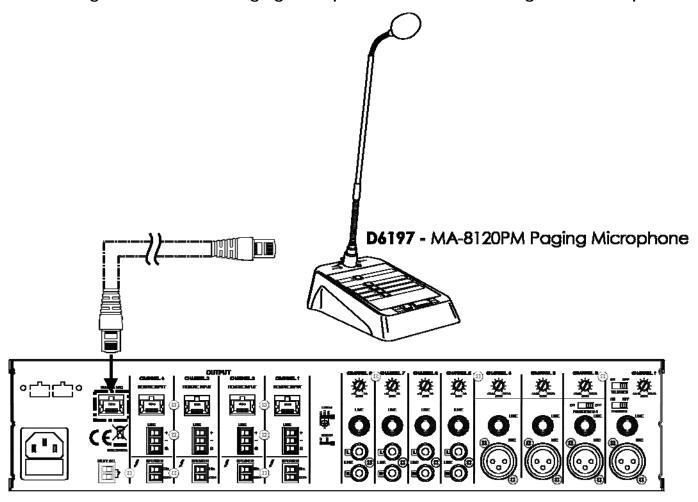
Set Up and Operation

Paging Function
01) Press one of the **zone buttons 1-4 (04)** or the **ALL button (03)** to select the desired zone(s).
02) Press and hold down the **TALK button (06)** and start talking. Once you have finished, release the **TALK button (06)**.

Chime Function
01) Press one of the **zone buttons 1-4 (04)** or the **ALL button (03)** to select the desired zone(s).
02) Press and hold down the **TALK button (06)** and press the **CHIME button (05)** to play the chime tone.

Connecting the MA-8120PM Paging Microphone to the MA-8120 Digital Zone Amplifier

Fig. 03

Data Cabling

To link fixtures together, you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable, please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.
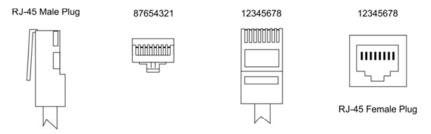
DAP Audio PC Interface Cables

- CAT-5 cable 7,6 mm Matte blue PVC. **Ordercode** FL55150 (1,5 m), FL553 (3 m), FL556 (6 m), FL5510 (10 m), FL5515 (15 m), FL5520 (20 m).
- CAT-6 cable (recommended for best data transfer). **Ordercode** FL563 (3 m), FL566 (6 m), FL5610 (10 m), FL5615 (15 m), FL5640 (40 m).

How to make a data cable

A standard ETHERNET cable can be used to replace the data cable required to transmit the data for the MA-8120PM Paging Microphone.
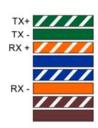
Please follow the instructions below in order to create an extra net cable.

Take a standard net cable (CAT-5/ 5E /6) and connect it to the RJ45 connector, as shown in the picture below (fig. 04). The wires should now be colored as follows:

Color Standard EIA/TIA T568A   Ethernet Patch Cable

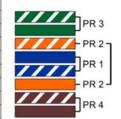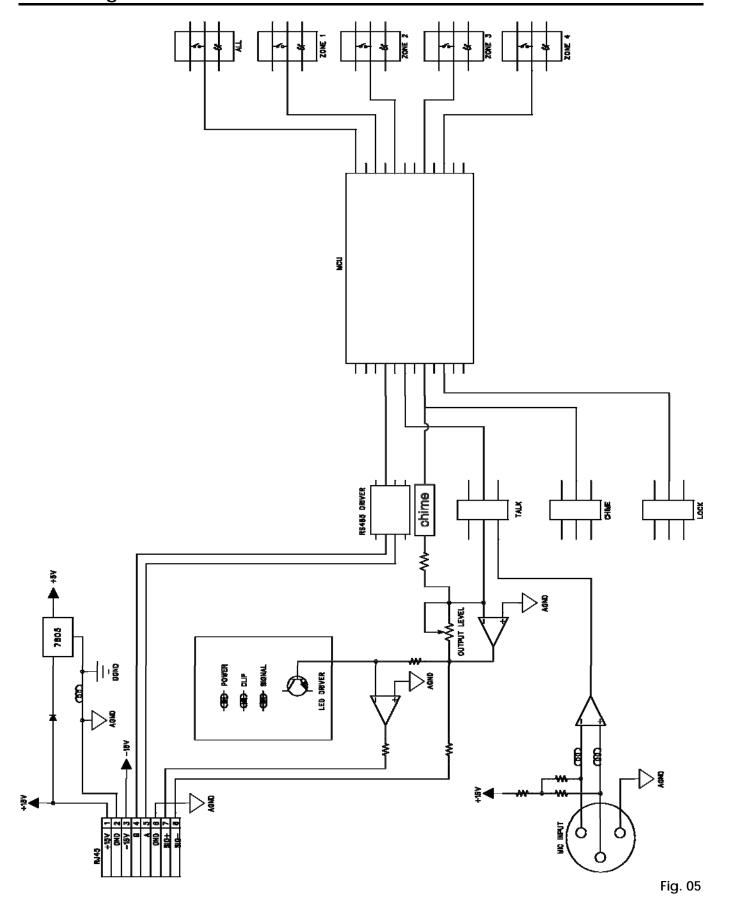| RJ45	Pin#		Pin#	RJ45	
Green/White Tracer	1		1	Green/White Tracer	PR 3
Green	2		2	Green	
Orange/White Tracer	3		3	Orange/White Tracer	PR 2
Blue	4		4	Blue	PR 1
Blue/White Tracer	5		5	Blue/White Tracer	
Orange	6		6	Orange	PR 2
Brown/White Tracer	7		7	Brown/White Tracer	PR 4
Brown	8		8	Brown	

TX+, TX -, RX +, RX -

Fig. 04

Block Diagram

Fig. 05

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Maintenance

The DAP Audio MA-8120PM Paging Microphone requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.
Keep connections clean. Disconnect electric power, and then wipe the audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Troubleshooting

DAP Audio MA-8120PM Paging Microphone
This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.
01) If the device does not operate properly, unplug the device.
02) Check power from the wall, all cables, connections, etc.
03) If all of the above appears to be O.K., plug the unit in again.
04) If nothing happens after 30 seconds, unplug the device.
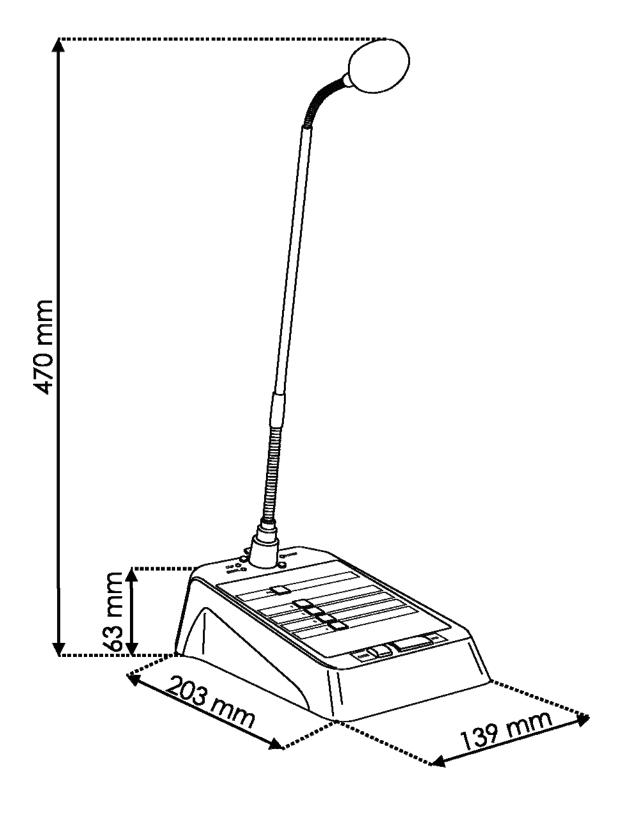05) Return the device to your DAP Audio dealer.

Product Specifications

Model:	DAP Audio MA-8120PM Paging Microphone
Dimensions:	203 x 139 x 470 mm (LxWxH)
Weight:	0,9 kg
Operating and Programming:	
Signal link:	RJ45 IN
Electro-mechanical effects:	
Rated output level:	0dB / 600Ohm, balanced
Input sensitivity:	-60dB / 600Ohm, balanced
Frequency response:	45Hz – 15kHz
T.H.D.:	< 0,1%
Zones:	4
Max. ambient temperature t_a:	40°C
Max. housing temperature t_B:	80°C

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

CE

Dimensions

470 mm

63 mm

203 mm

139 mm

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Notes