



CM-1

ORDERCODE D1360



SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

You have bought a great, innovative product from DAP Audio.

The DAP Audio Microphone range brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated show, this product provides the effect you need.

You can rely on DAP Audio, for more excellent audio products.

We design and manufacture professional audio equipment for the entertainment industry.

New products are being launched regularly. We work hard to keep you, our customer, satisfied.

You can get some of the best quality, best priced products on the market from DAP Audio.

So next time, turn to DAP Audio for more great audio equipment.

Always get the best -- with DAP Audio !

Thank you!



DAP Audio

DAP Audio CM-1 Product Guide

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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:

- DAP CM1
- Windscreen
- Microphone Clip
- User manual

 **CAUTION!** 
Keep this system away from rain and moisture!

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 remove warning or informative labels from the unit.
- Do not open the device and do not modify the device.
- Only use system indoor, avoid contact with water or other liquids.
- Avoid flames and do not put close to flammable liquids or gases.
- Make sure you don't use the wrong kind of cables or defective cables.
- Make sure that the signals to the mixer are balanced, otherwise hum could be created.
- Don't put your equipment next to TV, radio, etc., because of interference or distortion.

- Please read this manual carefully and keep it for future reference. Remember that the device has a better value on the market, if you save the carton and all packing materials.
- 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.
- If the device 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.
- Repairs, servicing and electric connection must be carried out by a qualified technician.

OPERATING DETERMINATIONS

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 !

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 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:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) 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 DAP CM-1 is a thin model condenser-microphone that comes with a cardioid and omni element. Depending on the application or personal taste the element can be exchanged. The CM-1 is ideally suited as a microphone for recording live ambient, drum overhead or acoustic instruments.

Overview



Fig. 1

1. Windscreen
2. Changeable head
3. XLR male output
4. Cardioid head
5. Omnidirectional head
6. Microphone clip

The Microphone

The CM-1 pencil microphone is one of the most versatile small condenser microphones available, and is an essential addition to your microphone toolkit. This single microphone outfit is really two microphones in one. The CM-1 is shipped with two separate interchangeable heads, one with a hypercardioid polar pattern and the other with an omnidirectional pattern.

The hypercardioid head is ideal for live sound reinforcement applications and recording applications where wide dynamic range and good off-axis rejection is required. The omnidirectional head can be used in the studio or for live recording where off-axis rejection isn't an issue, and the engineer wants to limit proximity effect or needs a wider non directional pickup pattern.

Changing the capsules is a very simple procedure. Simply unscrew the head of the microphone and replace with the other capsule to change from omnidirectional to cardioid pattern or vice versa. Do not over tighten the capsule, and pay particular attention to the threading of the capsule to ensure you do not cross thread the capsule. It is a good idea to store the replacement capsule in the box provided as it is fragile.

The CM-1 comes with a mic stand clip, however the optional DAP D8923 shockmount may be the preferred solution for isolating the capsule when using the microphone for most delicate recording or live sound reinforcement applications.

Understanding Multiple Polar Patterns

An omni-directional head will give your mic the ability to pick up sounds from all directions. This is ideal for recording sounds that emanate from multiple directions, or picking up the source material as well as the natural ambiance and reverberation of a room. Omnidirectional patterns also have no proximity effect, or "bottom end enhancement" as the source gets closer to the microphone. This makes an omnidirectional pattern ideal for use when recording choirs, string sections, background vocals or acoustic instruments where a natural "open" tone quality is preferred.

The cardioid pattern is ideal for single instrument or solo vocal use. This pattern picks up only sound directly in front of the microphone, sound from the back and sides of the microphone are rejected. The cardioid pattern also has the most pronounced proximity effect and best off axis rejection.

Connection Cables

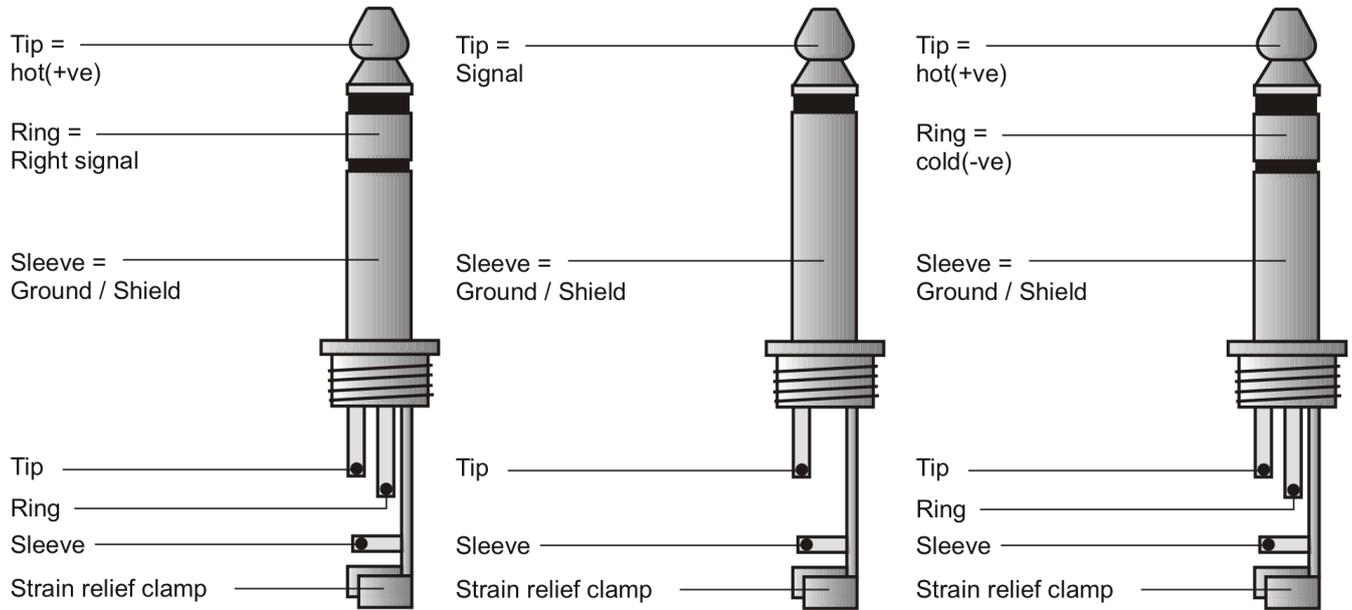
Take care of the connector cables, always holding them by the connectors and avoiding knots and twists when coiling them: This gives the advantage of increasing their life and reliability, which is always to your advantage.

Periodically check that your cables are in good condition, that they are correctly wired and that all their contacts are in good condition: a great number of problems (faulty contacts, ground hum, discharges, etc.) are caused entirely by using unsuitable or faulty cables.

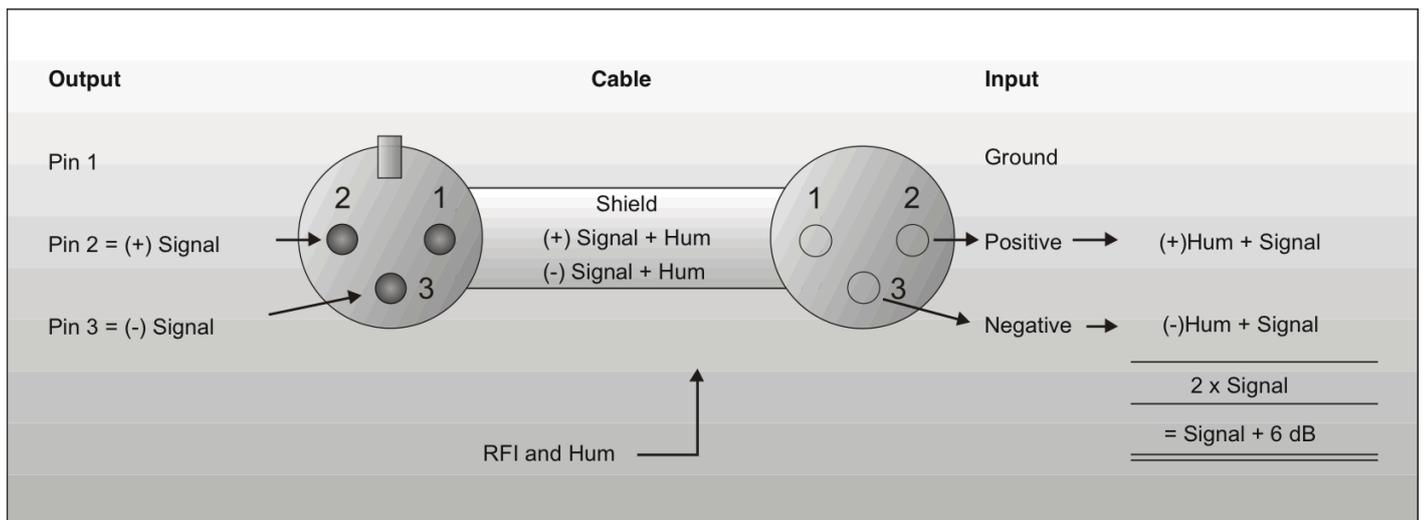
Headphones

Unbalanced mono 1/4" jack plug

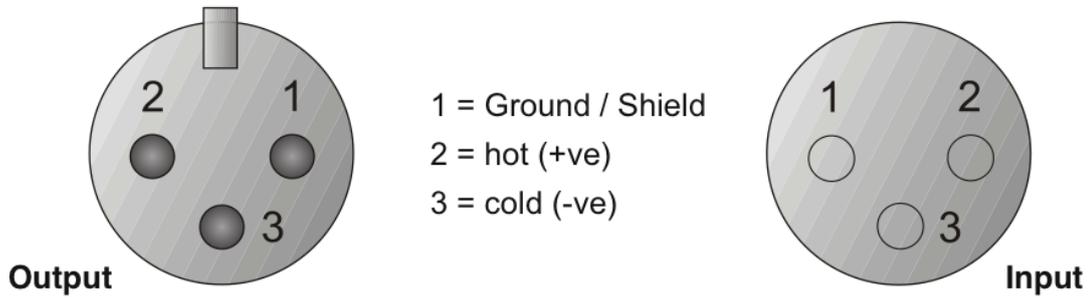
Balanced mono 1/4" jack plug



Compensation of interference with balanced connections



Balanced use with XLR connectors



For unbalanced use PIN 1 and PIN 3 have to be bridged

Maintenance

The DAP Audio CM-1 requires almost no maintenance. However, you should keep the unit clean. Disconnect the microphone and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.

Product Specifications

Model:	DAP Audio CM-1
Type:	Small Diaphragm Pencil Condenser
Frequency response:	30-20.000Hz (± 3 dB)
Polar pattern:	Omni, Cardioid
Sensitivity:	14mV/Pa -40dBV (0dB=1V/Pa) -10dB
Max SPL:	125dB (1% THD@1000Hz)
Impedance:	<250 Ohms
Microphone connector:	3-pole XLR male
Dimensions microphone:	$\varnothing 25,4$ mm x 133mm
Weight :	0,125kg

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



Website: www.Dap-audio.info
Email: service@highlite.nl



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