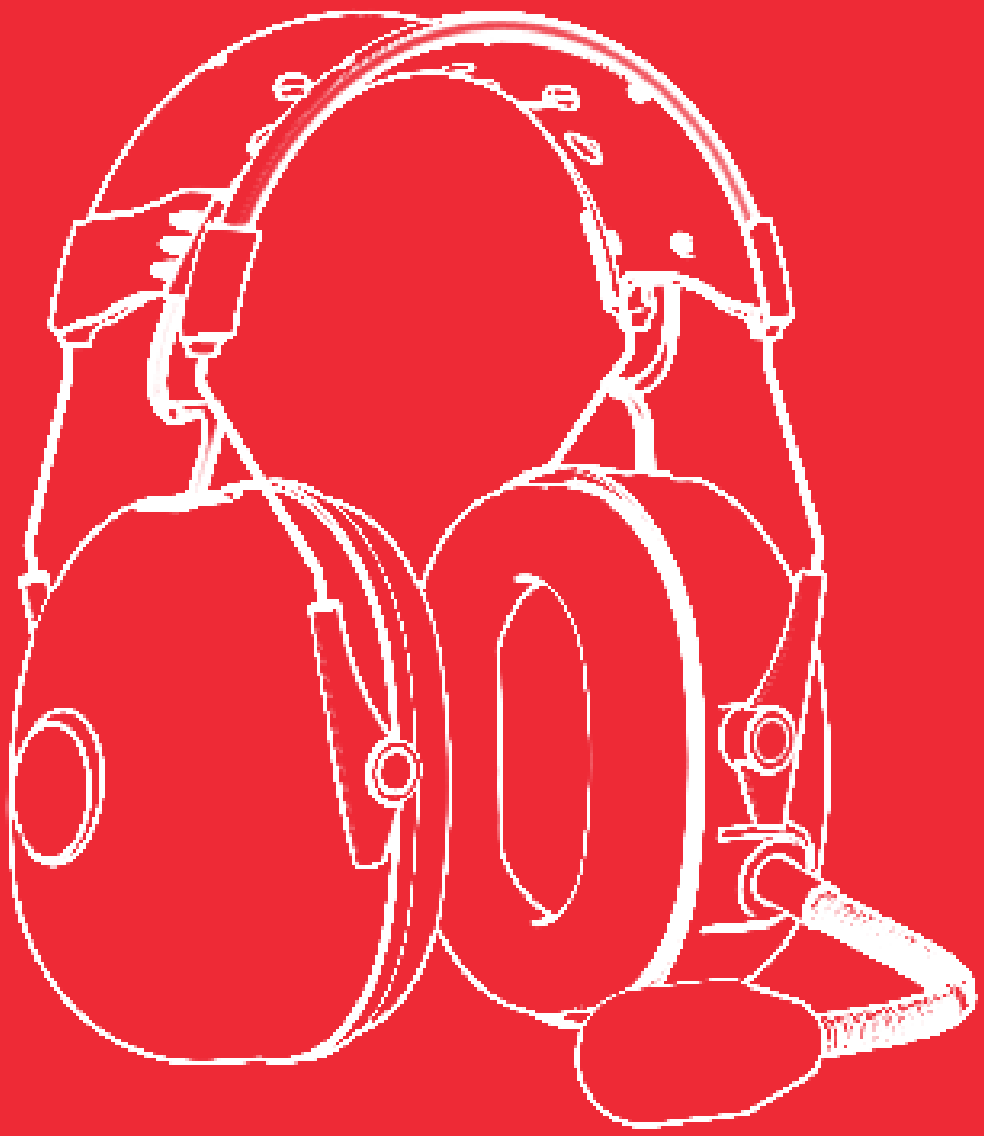
AURALCOM

USER MANUAL

Industrial Headset

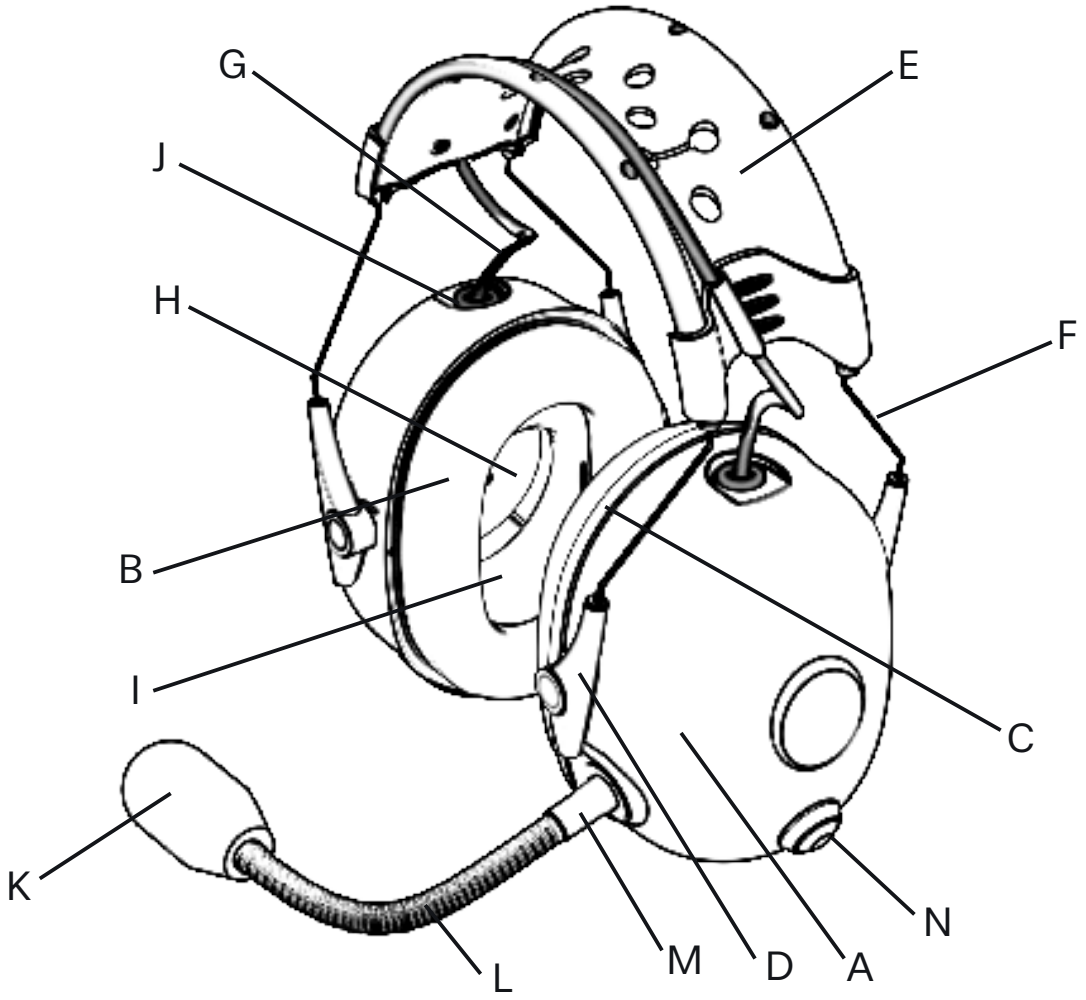
A800087 - Black
A800088 - Black with PTT
A800089 - Hi-Vis
A800090 - Hi-Vis with PTT



V1.03

1. INTRODUCTION

The DAC range of Industrial Headsets are designed for use within environments where hazardous noise levels occur, and clear, reliable communication is critical. With high-quality speakers in each ear cup, a high-performance microphone and hard-wearing noise attenuating materials, the DAC Industrial headset has been designed for use in a diverse array of industrial applications, where protection from high noise levels is paramount.



1.1 COMPONENT OVERVIEW

A) Ear Cup – ABS

B) Ear Cushion – PVC + PU

C) Ear Seal Carrier – ABS

D) Headset Adjuster – ACETAL

E) Headband – PU, ABS

F) Headband Tensioners – NICKEL PLATED STEEL

G) Headband Cable – PU, Cu

H) Speaker Cap – ABS

I) Foam Insert – PU

J) Cable Grommet – EVOPRENE 022 (A 54)

K) Microphone Windshield – POLYESTER FOAM

L) Flexible Boom Arm – BRASS

M) Boom Adapter – BRASS

N) Button – PA

2. SAFETY

Please thoroughly read all safety information in this document prior to usuring DAC's Industrial Headset. Instructions should be retained for future reference.
For additional information, or if you have any questions, please contact DAC customer services using the contact information on the last page.

WARNING

Whilst this hearing protection reduces exposure to high noise levels, misuse or failure to wear hearing protection when exposed to hazardous noise levels may result in injury, hearing damage or loss. If your hearing seems reduced or you are experiencing a ringing or buzzing during or after any high level noise exposure, leave the environment immediately and consult a medical professional.

Due to the nature of the hearing protection acting as audio communications equipment, awareness of surroundings is vital. A users ability to hear warning signs may be impaired due to noise attenuation through the headset. To reduce the impact of this, it is recommended users lower the audio volume to the lowest tolerable level and stay alert at all times.

Failure to follow these instructions may weaken the protection provided which can result in hearing loss:

A) **Ensuring the hearing protector is correctly selected, administered, adjusted and maintained is vital. Variations in the fit and ability to apply the headset can mean the user may experience less effective noise reduction. Therefore, it is recommended that all users receive personal fit checks of hearing protectors.**

B) Damaged hearing protection can reduce effectiveness and as such, it is crucial that all hearing protection is properly inspected prior to use. If damaged, new or alternative hearing protection should be used.

C) Do not attempt to bend or reshape the headband, this can reduce the effectiveness of the protection. Ensure there is sufficient clamping force to firmly maintain the position of the earmuffs prior to use.

D) With use and time, earmuffs may deteriorate and should be regularly checked for cracking and noise leakage, or any other visible damage. To maintain consistent protection, it is recommended the cushions should be replaced every year.

E) Always use specified DAC replacement parts. The use of unauthorised replacement parts may negatively affect the protection provided.

F) Ensure any unnecessary articles, such as hats and jewellery, do not interfere with the seal of the hearing protector. Where required, these articles should be removed to maintain optimal fit.

G) In the event that additional PPE (such as safety glasses or masks) are required, ensure it has flexible and low profile strap to minimise any potential interference with the hearing protection.

EN 352 Safety Statements:

- The fitting of hygiene covers to the cushions may affect the acoustic performance of the earmuffs.
- The product may be adversely affected by certain chemical substances. Refer to manufacturer for further information.
- These earmuffs are of large size range. Earmuffs complying with EN 352-1 are of 'medium size range', 'small size range' or 'large size range'. 'Medium size range' will fit the majority of users. 'Small size range' and 'large size range' earmuffs are designed to fit users for whom 'medium size range' is not suitable.
- These earmuffs have satisfied the requirements of the stress test under water at +50°C.

This hearing protection has been tested and approved in accordance with EN 352-1:2020 and EN 352-6:2020.

This hearing protection is in compliance with Regulation (EU) 2016/425.
Tested to applicable standards by SATRA, Wyndham Way, Telford Way, Kettering, Northamptonshire, NN16 8SD, United Kingdom.
Declaration of Conformity available online: www.daclimited.co.uk/technical

3. ATTENUATION DATA

The sound attenuation of the hearing protectors was measured in accordance with EN ISO 4869-1:2018.

	Frequency, Hz / Attenuation, dB re 20 µPa								HML				Mass
	(63)	125	250	500	1000	2000	4000	8000	H	M	L	SNR	
Mean attenuation	16.0	15.9	22.0	30.8	35.1	33.1	42.8	42.4	35.7	30.5	23.2	32.6	396g
Standard deviation	3.3	2.1	2.3	4.1	4.3	2.2	4.9	4.6	2.2	1.3	1.8	1.1	
Assumed protection (α=1)	12.7	13.8	19.7	26.7	30.8	30.9	37.9	37.8	34	29	22	32	

4. FITMENT INSTRUCTIONS

- Adjust the height of the cups by sliding them up or down while holding the headband in place.
- The ear seal should create an air–tight seal against the head of the user. Ensure glasses are removed and check the bottom of the ear cup for leakage. The optimum position for the ear lobe is the base of the ear seal.
- The headband should be positioned across the top of the head and should support the weight of the headset. The centre point of the headband should be positioned to the centre of the head, so the earcups are evenly adjusted either side of the head.
- Ensure the rotation of the earcups is parallel to the users head.
- For optimum performance of the speech microphone in high noise level areas, it should be positioned very close to the mouth.

5. PRODUCT LIFETIME

While the general lifetime of the headset is dependent on many factors, such as the manner in which it is stored, used, serviced and maintained, the recommendation is that the product is replaced every 5 years from the date of manufacture. Prior to this, it is important for the user to carry out regular inspection to determine if the product has reached the end of life. Some examples of end of life damage include:

- Visible cracks or deformation to the product.
- Loose or missing components.
- Reduction in the quality of the hearing protector's performance.
- Unusual sounds, buzzing or crackling.

NOTE: Deterioration of the ear cushion is not a sign that the whole unit has reached the end of life. The ear cushion itself can be replaced and should be yearly.

6. CLEANING & MAINTENANCE

Dampen a soft cloth with soap and warm water to clean the headband, ear cups and cushions.

DO NOT SUBMERGE THE HEARING PROTECTOR IN WATER.

If the hearing protector is exposed to water from rain or sweat, remove the ear cushions and allow to dry before reassembling.

The ear cushions should be replaced every year and regularly inspected for any signs of deterioration. If the ear cushions do display any signs of decline, they should be replaced. Some environmental conditions may require more regular replacements of the ear cushions, such as in high temperature or humidity.

6.1 REMOVING AND REPLACING THE EAR CUSHIONS

To remove the cushion, from the inside, place 3 fingers behind the cushion backplate and gently lift the backplate to separate it from the ear cup.

To fit the new cushion, place the attached backplate against the ear cup and firmly press into position.

7. STORAGE

- This headset should always be stored in a clean and dry space before and after use. This should be away from any direct sunlight, heat and dust. There should be no damaging chemicals present.
- Store in the original packaging.
- Temperature range: –20°C to 50°C.
- Humidity <90%.
- When storing, ensure the cushions are not compressed and there is no force on the headband, as this will cause damage and deterioration.

8. SPARE PARTS & ACCESSORIES

Product Number	Description
A700085	Motorola XT Coiled Lead
A700086	NATO J11 Coiled Lead
A700087	Peltor J11 Coiled Lead
A700088	5 Pin XLR Coiled Lead
A700089	5 Pin XLR 2m Straight Lead
A700097	10m Unterminated Straight Lead
A700098	Motorola DP Coiled Lead
A700101	Kenwood Twin Pin Coiled Lead
A700106	Ear Cushion with Carrier
A700107	Microphone Wind Shield – Small
A700111	4 Pin XLR Coiled Lead
A700112	4 Pin XLR 2m Straight Lead

9. DISPOSAL

Consult local laws and regulations for electronic waste disposal.

10. WARRANTY & LIMITATION OF LIABILITY

10.1 WARRANTY

DAC Limited provide a 2 year warranty, covering components found to be defective or non-conforming. In the event of a warranty claim the manufacture will verify the headset has been used, stored and maintained as outlined in these written instructions.

It is at the discretion of the manufacture (DAC Limited) to decide the appropriate course of action, be that repair, replace or refund.

NOTE: Warranty does not cover any damage caused by negligence and careless handling. DAC has no obligation in the event that a headset fails as a result of this misuse.

10.2 LIMITATION OF LIABILITY

DAC LIMITED DOES NOT ACCEPT LIABILITY OF ANY KIND, BE IT DIRECT OR CONSEQUENTIAL (INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS AND/OR GOODWILL) ARISING FROM RELIANCE UPON ANY INFORMATION HEREIN PROVIDED BY DAC LIMITED.

THE USER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE PRODUCT FOR THEIR INTENDED USE. NOTHING IN THIS STATEMENT WILL BE DEEMED TO EXCLUDE OR RESTRICT DAC LIMITED'S LIABILITY FOR DEATH OR PERSONAL INJURY ARISING FROM ITS NEGLIGENCE.

10.3 MODIFICATION

Modifications should not be applied to this headset without the explicit written consent of DAC limited. In the event of unauthorised modifications being made to the headset, the warranty will be void.

WHEN COMMUNICATION IS CRITICAL

DAC design and manufacture ruggedised communication equipment focused on providing unwavering reliability when it matters most.

Our range of products prioritise safety by ensuring critical communications remain clear and dependable, protecting lives and maintaining operations in arduous and critical environments used across the globe.

PROUD TO PARTNER

DISTRIBUTED EXCLUSIVELY UNDER LICENCE BY:

AURALCOM

DESIGNED & MANUFACTURED IN THE UK. INSTALLED ACROSS THE WORLD.

T +44 (0)1282 447 000 E sales@daclimited.co.uk W daclimited.co.uk

A Union Mill, Watt Street, Sabden, Lancashire BB7 9ED, United Kingdom