

## UFQ L2 ANR

# UFQ ANR L2 Hi-Lite In-Ear Aviation Headset Instruction Manual

Brand: UFQ | Model: L2 ANR

## 1. INTRODUCTION

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This manual provides essential information for the proper use and maintenance of your UFQ ANR L2 Hi-Lite In-Ear Aviation Headset. Please read these instructions carefully before operating the headset to ensure optimal performance, safety, and longevity of the product.

The UFQ ANR L2 Hi-Lite is designed to provide active noise reduction and clear communication in aviation environments, featuring a lightweight design for extended comfort.

## 2. PRODUCT OVERVIEW

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The UFQ ANR L2 Hi-Lite headset is an advanced in-ear aviation communication device. Key components include the in-ear earpieces, a flexible microphone boom, a control box, and connection cables with GA twin plugs.



Figure 2.1: UFQ ANR L2 Hi-Lite In-Ear Aviation Headset with its control box and standard GA twin plugs.

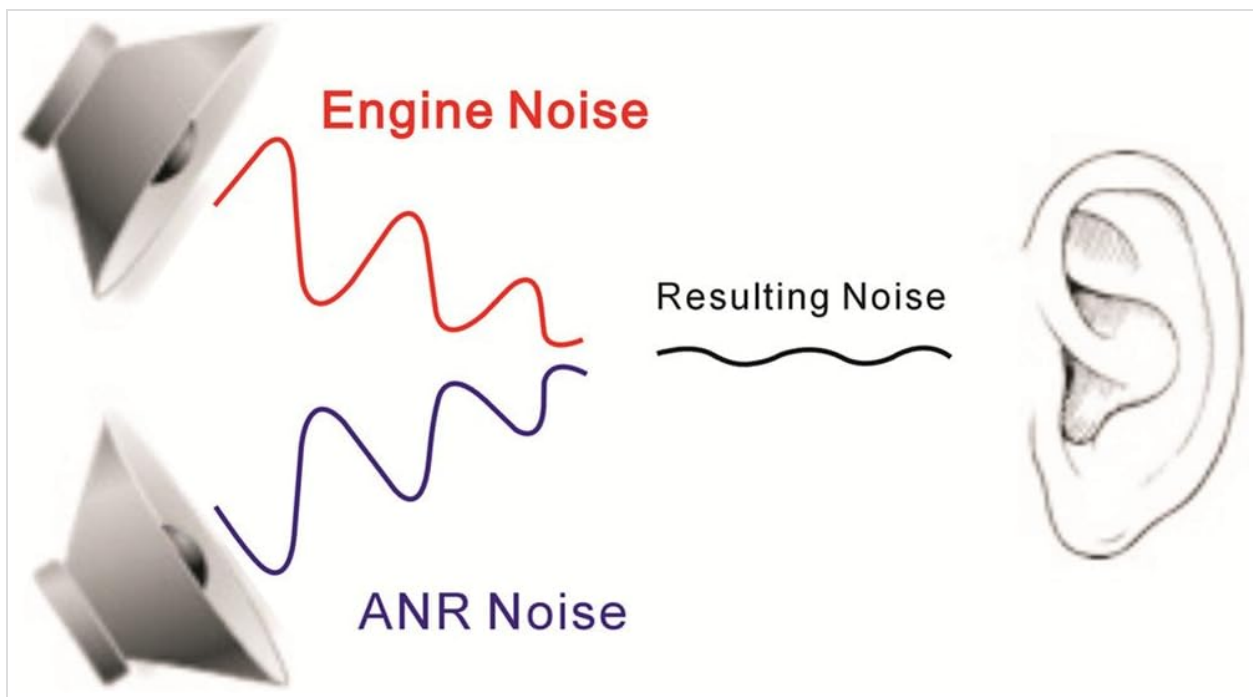


Figure 2.2: Individual components of the UFQ ANR L2 Hi-Lite headset, including the earpieces, microphone, and main cable assembly.

## Key Features:

- **Active Noise Reduction (ANR):** Provides up to 52 dB Noise Reduction Rating (NRR) for a quieter environment.
- **Ultra-Lightweight Design:** Weighs approximately 175g for enhanced comfort during long periods of wear.
- **Clear Communication:** Equipped with a UFQ M-7U aviation microphone for crisp voice transmission.
- **Adjustable Fit:** Headband and ear loops are adjustable, with multiple ear tip options (silicone and memory foam in S, M, L sizes).
- **Durable Construction:** Features a steel headband and reinforced cables with Kevlar for increased longevity.
- **External Device Compatibility:** Includes a link cable for connecting MP3 players, radios, iPods, iPads, or cellphones.
- **Dual Volume Controls:** Located on the control box for independent audio adjustment.
- **Mono/Stereo Switch:** Allows selection between mono and stereo audio modes.

## 3. SETUP

### 3.1 Battery Installation

The headset requires two (2) AA batteries for the Active Noise Reduction (ANR) function. A fresh set of batteries can provide over 48 hours of operation.

1. Locate the battery compartment on the control box.
2. Slide the battery compartment cover open.
3. Insert two AA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



*Figure 3.1: The control box, showing the battery compartment location (typically on the back or side).*

### **3.2 Ear Tip Selection and Installation**

The headset comes with six pairs of ear tips: three pairs of silicone rubber and three pairs of memory foam, each in small (S), medium (M), and large (L) sizes. Select the size and material that provides the best seal and comfort for your ear canals.

# UFQ connectors options

## 1 GA twins plugs or Boing



## 2 Helicopter single plug U174/U



## 3 Airbus XLR 5 pin male



## 4 Lemo 6 pin male



Figure 3.2: Various sizes and types of ear tips provided with the headset.

1. Gently remove any pre-installed ear tips from the earpieces.
2. Choose your preferred ear tip size and material.
3. Carefully push the chosen ear tip onto the earpiece nozzle until it is securely seated. Ensure the oblong shape of the ear tip aligns with the earpiece nozzle for a proper fit.

### 3.3 Headset and Microphone Adjustment

Adjust the headset for a secure and comfortable fit.

1. Place the in-ear earpieces into your ear canals.
2. Adjust the headband and ear loops to ensure the earpieces remain comfortably in place.
3. Position the flexible microphone boom so that the microphone is approximately 0.5 to 1 inch (1.2 to 2.5 cm) from your mouth, slightly to the side, to optimize voice clarity and minimize breathing sounds.
4. Utilize the included wire clip to secure the cable to your clothing or seatbelt, reducing strain on the connections.



Figure 3.3: Proper wearing and microphone positioning of the headset in an aviation environment.

### 3.4 Connecting to Aircraft

The headset is equipped with standard GA twin plugs for connection to most general aviation aircraft intercom systems.

1. Insert the larger plug (PJ-068, for headphones) into the corresponding jack on the aircraft's audio panel.
2. Insert the smaller plug (PJ-055, for microphone) into the corresponding jack on the aircraft's audio panel.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On/Off Active Noise Reduction (ANR)

The ANR function significantly reduces ambient noise for improved clarity and reduced fatigue.

1. Ensure batteries are correctly installed (refer to Section 3.1).
2. Locate the ON/OFF switch on the control box.
3. Slide the switch to the 'ON' position to activate ANR. A green LED indicator will illuminate.
4. To deactivate ANR, slide the switch to the 'OFF' position. The headset will then operate in Passive Noise

Reduction (PNR) mode.



Figure 4.1: Conceptual diagram of how ANR technology works to cancel out unwanted noise.

## 4.2 Volume Control

The control box features dual volume sliders, allowing independent adjustment of audio levels for each ear.

1. Adjust the left slider to control the volume for the left earpiece.
2. Adjust the right slider to control the volume for the right earpiece.
3. Set the volume to a comfortable listening level.

## 4.3 Mono/Stereo Switch

The headset includes a mono/stereo switch to match the audio output of your aircraft's intercom system.

- Set the switch to 'MONO' if your aircraft's audio panel provides a mono signal.
- Set the switch to 'STEREO' if your aircraft's audio panel provides a stereo signal.

## 4.4 Connecting External Devices

An audio link cable is included for connecting personal electronic devices.

1. Connect one end of the audio link cable to the auxiliary input jack on the control box.
2. Connect the other end to your MP3 player, radio, iPod, iPad, or cellphone.
3. Adjust the volume on your external device and the headset's control box as needed.

## 5. MAINTENANCE

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### 5.1 Cleaning

Regular cleaning helps maintain hygiene and performance.

- Wipe the headset, control box, and cables with a soft, damp cloth.
- Do not use harsh chemicals, solvents, or abrasive cleaners.
- Clean ear tips regularly with mild soap and water, or replace them as needed. Ensure they are completely dry before reattaching.

### 5.2 Storage

Proper storage protects the headset from damage.

- Store the headset in the provided carrying case when not in use.
- Avoid extreme temperatures and humidity.
- Do not store with batteries inserted if the headset will not be used for an extended period to prevent leakage.



**Now each headset includes 6 pairs of ear tips**

**3 pairs silicon rubber ear tips  
( Small, Medium,Big)**

**3 pairs memory foam ear tips  
( Small, Medium,Big)**

*Figure 5.1: The protective carrying case for the UFQ ANR L2 Hi-Lite headset.*

### 5.3 Cable Care

The cables are reinforced for durability, but proper handling is still important.

- Avoid sharp bends or kinks in the cables.
- Do not pull on the cables to disconnect the plugs; always grasp the plug itself.
- Ensure cables are not pinched or caught in aircraft components.

## 6. TROUBLESHOOTING

If you encounter issues with your headset, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No audio or low volume	Incorrect volume settings; loose connections; aircraft audio panel issues.	Check headset volume sliders; ensure plugs are fully inserted; verify aircraft audio panel settings.
ANR not functioning (no green LED)	Dead or incorrectly installed batteries; ANR switch in 'OFF' position.	Replace batteries; ensure batteries are installed with correct polarity; slide ANR switch to 'ON'.

Problem	Possible Cause	Solution
Poor ANR performance	Improper ear tip seal; ANR not active.	Ensure ear tips are correctly sized and seated for a good seal; verify ANR is 'ON'.
Microphone not transmitting or unclear audio	Microphone positioned incorrectly; loose connection; aircraft squelch setting too high.	Adjust microphone position (0.5-1 inch from mouth); ensure microphone plug is fully inserted; adjust aircraft squelch.
Distorted audio from external device	Volume levels too high; faulty audio link cable.	Reduce volume on both external device and headset; try a different audio link cable if available.

## 7. SPECIFICATIONS

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- **Model Name:** Hi-Lite
- **Item Model Number:** L2 ANR
- **Headphones Jack:** GA twin plugs
- **Connectivity Technology:** Wired
- **Noise Control:** Active Noise Cancellation (ANR)
- **Ear Placement:** In Ear
- **Form Factor:** In Ear
- **Material:** Silicone (ear tips)
- **Compatible Devices:** MP3/Radio/iPod/iPad, Cellphones
- **Control Type:** Volume Control, Remote
- **Cable Feature:** Retractable (implied by design, not explicitly stated as retractable cable)
- **Item Weight:** 175 Grams (6.2 ounces)
- **Frequency Range:** 20 Hz - 20,000 Hz
- **Battery Life:** 48 Hours (with 2 x AA batteries)
- **Audio Driver Type:** Balanced Armature Driver
- **Carrying Case Material:** Protective material (e.g., nylon or leather)
- **Carrying Case Color:** Black
- **Earpiece Shape:** Rounded or Angular
- **UPC:** 634769800207
- **Special Feature:** Lightweight, Noise Cancellation
- **Manufacturer:** UFQ avionics
- **Package Dimensions:** 8.7 x 8.23 x 2.6 inches
- **Color:** Black

## 8. WARRANTY INFORMATION

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Specific warranty details are not provided in this manual. For information regarding warranty coverage, terms, and conditions, please refer to the product packaging, the official UFQ website, or contact your point of purchase.

## 9. SUPPORT INFORMATION

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For technical assistance, customer service, or further inquiries, please contact UFQ customer support through their official channels. Contact information can typically be found on the manufacturer's website or included documentation.