

AEROTION AVIATION PS1 USER MANUAL

Introduction

The PS1 Passive noise reduction headset is the ideal choice for any pilot starting their flight training journey or the perfect option for a spare/-passenger headset.

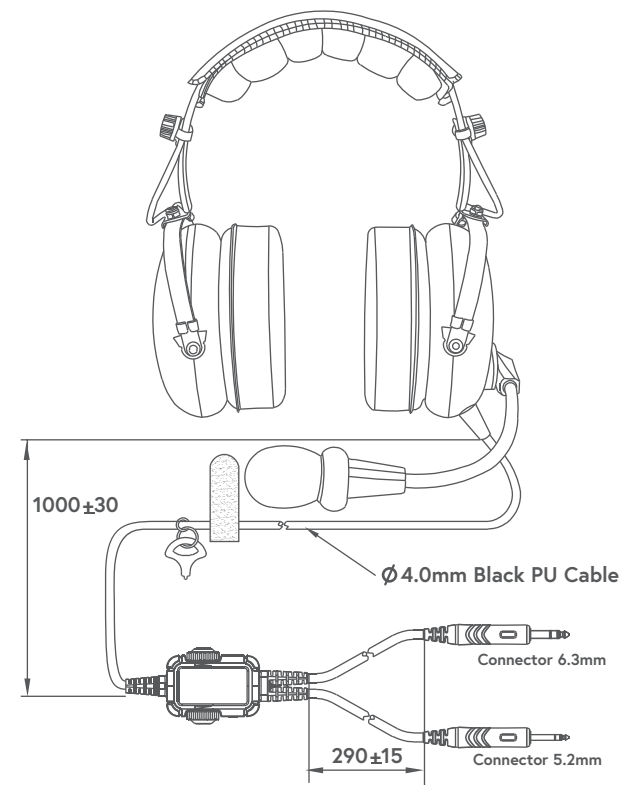
Aesthetically pleasing and comfortable, the premium PS1 headset is low-priced yet still delivers on quality and offers advanced features such as Aux in, plush leather ear seals, and a reversible mic boom designed for left or right microphone placement.

The PS1 PNR headset offers outstanding noise reduction of 25dB to effectively cancel out cockpit noise, allowing you to listen to ATC clearly and concentrate on flying your aircraft.



1. Comfortable Foam Head Pad
2. Over-the-head Adjustable Band
3. Comfortable half gel half foam ear pad
4. 270 Degree Rotatable Boom
5. Noise-canceling Electret Mic Element
6. Flexible Boom

Specifications



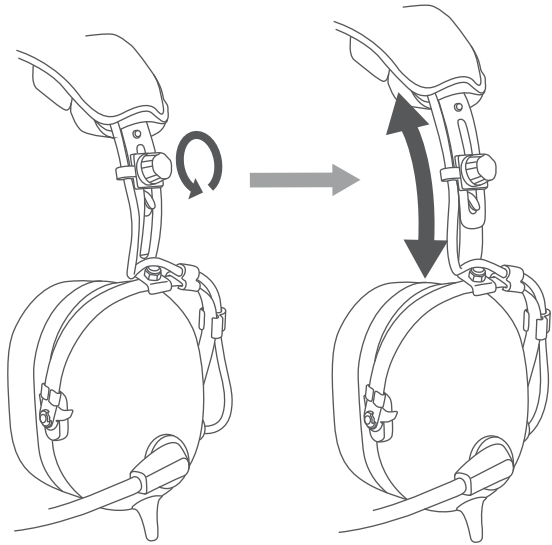
Speaker Specification

Impedance:	150Ω
Sensitivity:	119±3dB At 1K Hz/IEC318,547m
Resonance freq:	/ ±20%Hz
Frequency respond:	20-20KHZ
Rated input power:	80mW
Maximum input power:	80mW

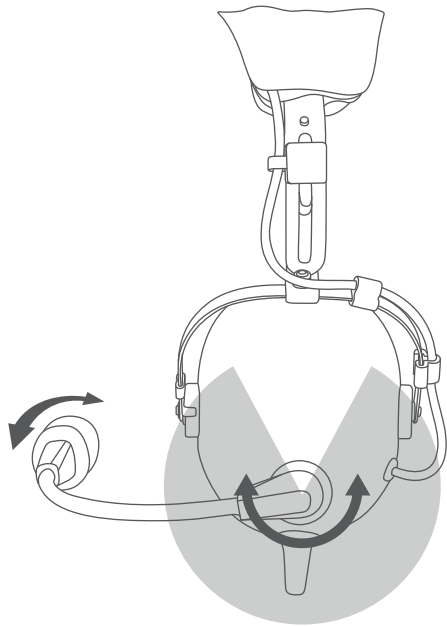
Microphone Specification

Sensitivity Range:	-35±2dB
Impedance Max:	2.2KΩ@1KHz
Frequency :	50-10KHz
Current Consumption Max:	500uA
Operation Voltage Range:	1.0-10V
Max Sound pressure Level:	110dB

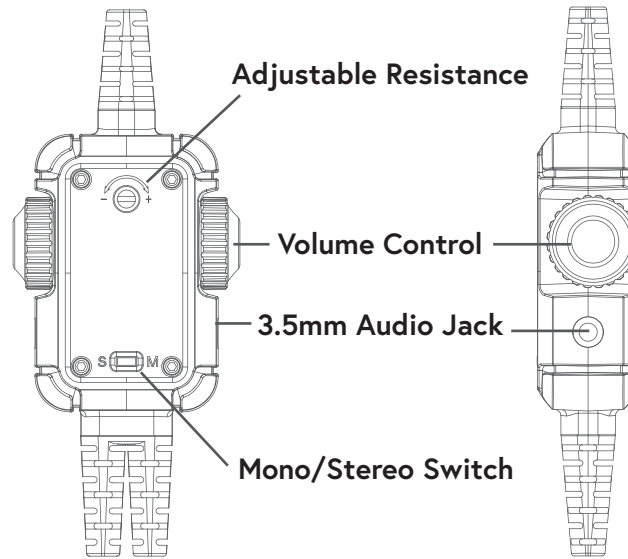
Operation Instructions



Adjustment for a personalized fit on the headset is simple and easy. Proper fit is important both for comfort and optimal noise reduction.



To adjust the microphone placement, rotate the microphone from its base and bend the flexible boom.



Stereo/Mono Switch

In our aviation headsets, the 'stereo - mono' switch (marked S – M) allows each earphone speaker to operate on a separate channel when the switch is in the 'stereo' position, and switches both earphone speakers on to the one 'mono' channel when in the 'mono' position.

When the switch is in the 'M' mono position, both earphone speakers will emit sound regardless of whether the input to the headset is from a mono or stereo source.

When the switch is in the 'S' stereo position for stereophonic sound, sound will be emitted by both earphone speakers if there is a 2 channel input from a stereo source, but only one earphone speaker will emit sound if the sound source is a single channel mono source.

Warranty service

All Aerotion Aviation headset our covered by a no-quibble, 12 month warranty.

We provide a one-year warranty for the product, the warranty period starts from the day of receipt of the goods.

During the warranty period, we will repair or replace the product according to the situation for various defects caused by the raw material or production process of the product.

The above warranty does not include the following:

- 1.Exceeding the warranty period
- 2.Dismantle headset without permission
- 3.Damage caused by force majeure such as immersion, moisture, mold, and natural disasters
- 4.Natural aging, wear and consumption of consumable materials such as shells, ear pads, and head pads

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Headset microphone troubleshooting

1. **(PS1 & PS2 only)** While talking to a passenger, rotate the mic resistance on the inline volume control box slowly, both clockwise & anticlockwise until your voice can be heard clearly. The mic resistance works off the pitch/volume of your voice so there is no right position for every pilot.
2. Making manual adjustments to both the aircraft intercom and radio squelch will 9 out of 10 times fix all microphone issues. Not all radio/transceivers have an adjustable squelch setting however they are becoming more common. If you are unsure, please advise us of the make and model of your radio and we will send you instructions.
(Instructions below for the most common intercom setup)
3. Test in both Mono & Stereo (Marked **M** (mono) & **S** (stereo) on inline controller) as this can affect the mic resistance.
4. Ensure both headset connectors are firmly inserted into the aircraft sockets. The connectors at the end of the headset cable might have debris or corrosion on them. Apply a small amount of isopropyl alcohol to a cloth, wipe the metal connectors, then dry them with a clean cloth. Once cleaned and dried, connect the headset and try again.
5. Lastly, check that the mic is the correct way round and the mic inlet is facing your mouth as below:



Most common process for adjusting Intercom squelch

To adjust squelch, first make sure nobody speaks for a few seconds. Then turn your intercom volume up much higher than normal to make it easy for you to hear an open mic. Now turn the squelch knob, or ring, counter clockwise until you hear the microphone click open. You will probably hear a hiss or hum and any ambient cockpit noise such as the engine will be fed into your headset. Now turn the knob or ring slowly clockwise just until the noise is suppressed. Once you're done, you should readjust the intercom volume to a normal level to avoid yours or your passenger's voice blasting your eardrums. Finally, do a mic and volume test for each of the passengers.

The radio/transceiver should also have a manual squelch adjustment. If you are unsure how to adjust this, please advise us of the make and model and we will send further instructions.