

SEHT



**SH 30-75
AVIATION HEADSET**

**USER MANUAL
Edition 1 (2017)**

Welcome

We are so confident this product will bring you of years of trouble free, quiet, comfortable and enjoyable use that we offer not only a full 5 year warranty (by registration, see separate document for details) but we also offer our unrivalled satisfaction guarantee, if you are not entirely satisfied for any reason with the product simply return it (full details available on request)

The SH30-75 is not just a high quality ANR aviation headset with an unrivalled price/performance ratio it also employs a separate Hi-Fi quality audio circuit that allows you to input a separate audio device (Mp3 player, Airspace proximity warning, etc) and enjoy crisp clear high quality sound.

WARNING!

Please read the information in this user manual carefully and completely before using your headset. Keep these instructions and make them easily accessible to all other users. Always include this user manual when giving this headset to third parties. In an unlikely event of a problem with your headset, it is recommend to switch to an alternate communication method and to use standard cockpit resource management skills to minimize distraction.

Your aircraft sounds such as engines, propellers, warning alarms and other sound sources may sound differently when using a new headset.

When listening to an audio source via the SH30-75 limit the volume to safe levels to ensure you are able to hear communication and warning alarms from your aircraft.

Do not attempt to disassemble the headset as this may void your warranty and result in unexpected performance of your headset. Always refer servicing and repair to SEHT approved service centres. Contact SEHT for details.

Features

Advanced reverse noise cancelling technology, reduces up to 90% of background noise.

Noise cancelling dedicated 40mm driver, single piece formed corona diaphragm ensuring crystal clear, high quality sound reproduction. Hi-Fi quality speakers for music reproduction to maximize listening pleasure and reduce fatigue.

Failsafe design to ensure communication is not lost in the event of battery failure. Headset reverts automatically to passive mode.

Full cover cap design, high quality gel seal material to maximise comfort and reduce background noise.

Electret noise cancelling microphone to ensure faithful voice reproduction and minimise noise and unwanted breakthrough of interference.

Using the SH30-75

The SH30-75 uses state-of-the-art technology to reduce exterior noise and promote clear in-flight communications reducing user fatigue.

Once the ANR power switch is activated the SH30-75 reduces unwanted ambient noise through Active Noise Reduction (ANR). This is done by placing a microphone inside the ear cup and generating an anti-noise signal through the speakers.

The anti-noise and the ambient noise cancel each other out before they reach the ear resulting in a quieter environment. Through this technology low frequency ambient noise is significantly reduced making communication easier and reducing user fatigue.

The SH30-75 will continue to operate as a standard passive aviation headset should the ANR become inactive for any reason such as low or no battery power.

Getting started

Correct fitment is essential to ensure the correct operation of any headset. A good seal around your entire ear and a symmetrical fit across the top of your head is necessary to ensure the correct performance of the ANR feature.

The following steps will assist you in achieving the proper fit:

1. Extend the ear shell slider adjusters fully.
2. Place the headset on your head and compress the sliders slowly on each side until the head pad rests softly on the top of your head.
3. Adjust the ear cups to ensure the ears are fully inside the ear seal and there is uniform pressure on your head
4. Tighten the adjusters securely to prevent unwanted movement.

IMPORTANT

If the headset is not fitted correctly this may generate an oscillating noise, this is caused by the ears seals not sealing entirely around the ear, adjust the ear cup and ear seal to make sure the ears are sealed completely. The wearing of glasses can promote the issue and it is recommended to use with cotton ear seal covers (provided) to reduce this.

The microphone can be rotated and placed on the right or left side of the headset. To adjust the microphone placement rotate the microphone from its base and bend the flexible boom. For clear and crisp communication, the microphone should be placed approximately 3mm from the lips.

Battery Type

The SH30-75 uses two AA batteries (supplied). Always use good quality alkaline batteries to ensure the best performance. DO NOT use rechargeable batteries as they provide reduced and uneven voltage which can interfere with the correct headset performance.

The SH30-75 has a failsafe mode and will continue its basic operations of hearing and

transmitting in the event of battery failure or without batteries fitted.

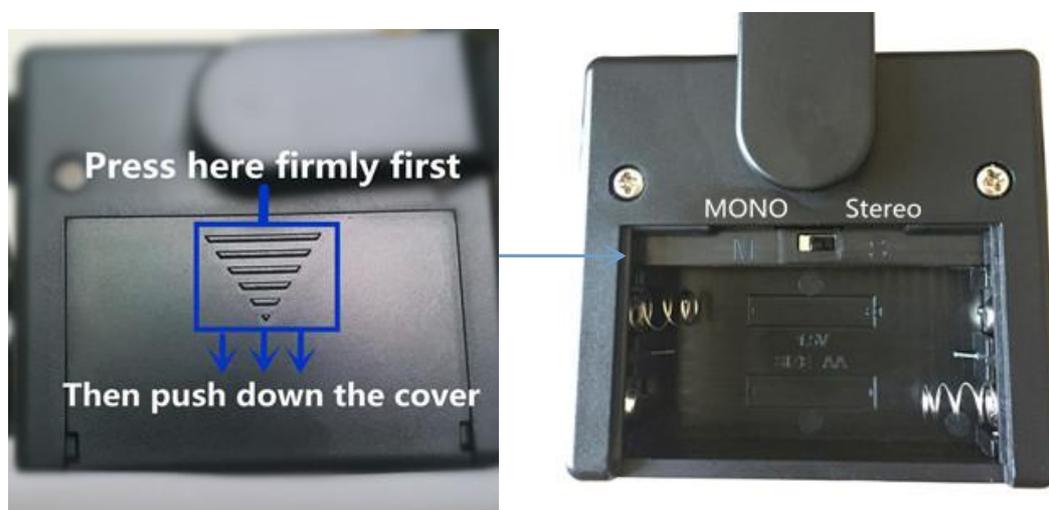
DO NOT mix old and new batteries together.

Battery Life

The use of alkaline batteries can typically provide up to 38 hours of use, the exact duration however depends on the amount of noise reduction required in your cockpit. To maximise battery life turn off ANR when headset is not in use.

Battery Installation

To open the battery compartment door push down the battery cover (see below)



Controller Reference

1. Insert two AA batteries in the battery compartment
2. Slide switch to the ON position to activate the ANR function.
3. Observe the LED illuminates



IMPORTANT

When using the switch and to ensure reliable operation always push down on the switch button then slide the switch to the desired position.

Power Status

1. Indicates Green when battery supply is strong.
2. Indicates Orange when battery is low.
3. Indicates Red when battery is exhausted.

Stereo / Mono Setting

Whether you should use the Mono or Stereo setting depends on your aircraft's avionics. Incorrect setting will result in communication being heard in only one side. Stereo/Mono setting does not affect the audio from auxiliary sources.

By default the switch is set to Mono operation, to change this setting remove the battery compartment door (see above) and slide the switch to the desired setting (see below),



M = Mono operation

S = Stereo operation

Volume Adjustment

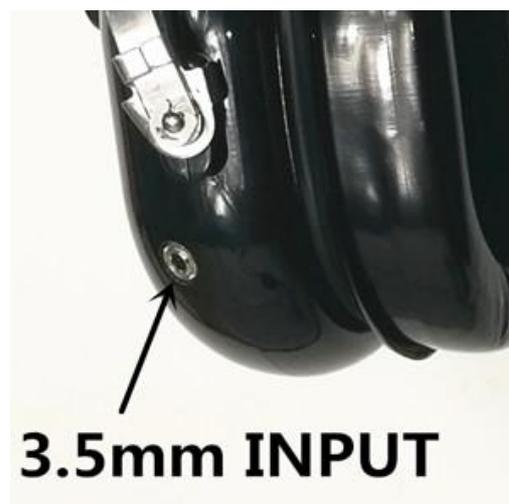
The volume adjuster is located at the top of each ear cup; each ear cup's volume can be independently adjusted.



The overall headset volume will be determined based on the settings on the headset as well as the aircraft's intercom or radio. Avoid setting the volume levels too high; exposure to loud sounds can cause permanent hearing damage.

Auxiliary Input

The SH30-75 can be connected to an external audio source such as a portable audio or GPS device via the provided 3.5mm jack cable. You will find the auxiliary input on the opposite ear cup to the microphone



Tip: Be sure to have the auxiliary audio set at a volume that ensures you do not miss any important communications or aircraft sounds.

Pro Tips

1. Always ensure the SH30-75 is fitting correctly by reviewing adjustments each time you wear them, ear seals should be centered over the ears for best performance.
2. There may be a noise generated if the ears seals are not providing a good seal around the ear, in this case you should adjust the ear cup and ear seal to make sure the ears are covered and sealed correctly. If using glasses it is recommended to use the provided cotton ear seal covers.
3. When using the power switch ensure your push down on the button of the switch then selected to the desired position, this helps protect the switch and ensure reliable operation
4. Position the microphone in front of your lips for maximum noise cancellation.
5. Set Mono / Stereo setting to match your aircrafts avionics. In most situations this would be mono, if set to the incorrect setting audio will be lost in one ear.

FAQ

- Q. Why can I hear in only one side?
- A. The SH30-75 is compatible with both Stereo and Mono aircraft avionics. If your headset is set to the incorrect setting for your aircraft hearing will be lost in one side.
- Q. What is the best way to store the headset?
- A. Please remove the batteries before storing the headset for a prolonged period, always store your headset in a ventilated area away from direct sunlight.
- Q. Why do I need to yell to activate the microphone?
- A. Your avionics squelch setting must be adjusted correctly; it is common for every pilot to change the squelch setting just like adjusting the volume. Consult someone who is familiar with your airplane's avionics if you cannot locate the squelch control.
- Q. Why can I always hear cockpit noises in my ears even when I am not talking?
- A. Your avionics squelch setting must be adjusted correctly; it is common for every pilot to change the squelch setting just like adjusting the volume. Consult someone who is familiar with your airplane's avionics if you cannot locate the squelch control.

Technical Specifications

General

Battery power supply:	3V, 2 x AA alkaline batteries (provided)
Operating Temperature:	-4 to 94°F / -20 to 70°C
Storage Temperature:	-31 to 167°F/ -35 to 75°C
Cord Length:	160cm
Weights:	20oz / 570g

Headphone

Type:	Dynamic
Frequency Response:	50 Hz to 20 kHz
Sensitivity:	95 ± 5 dB SPL

Microphone and Amplifier

Type:	Noise-canceling Electret
Frequency Response:	100 Hz to 5 kHz
Operating Voltage:	8-32 VDC
Matching impedance:	150-1000 Ohms
Sensitivity:	-33 ± 4 dB

Active Noise Reduction

Main Attenuation Frequency Band:	20Hz to 700Hz
Power Consumption:	30mW