

# 3G USER'S GUIDE

LISTEN TO SILENCE.



LIGHTSPEED AVIATION HEADSETS

## ***To the New LightSPEED Headset Owner:***

Thank you, and congratulations for purchasing a LightSPEED headset.

We've gone to great lengths to create headsets that provide pilots and passengers the maximum comfort and quiet, at affordable prices.

As indicated by the brevity of this guide, we've designed our headsets to be straightforward and easy to use. As an aviator, you will appreciate being spared the burden of yet another complex instrument to keep track of. However, although operating LightSPEED headsets is mostly intuitive, there are a few things you need to know in order to get the maximum performance and control from your new ANR headset. We urge you to take a few moments and review the information in this booklet.

Thanks again for choosing a LightSPEED headset.

**LightSPEED Aviation, Inc.**

## Headset Adjustment

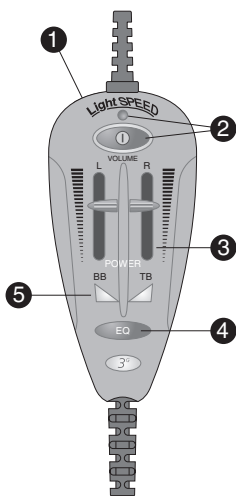
Getting the right fit is important. When properly fitted, the LightSPEED 3G series is designed to give you the most comfort while providing the best active cancellation performance. There are several things to remember:



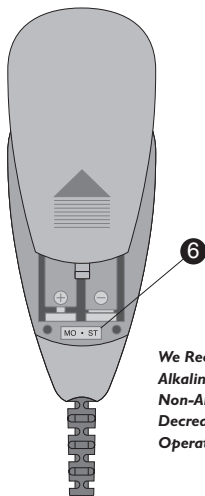
- The headset is non-reversible. The boom and cable must be on your left.
- Make sure both your ears are inside the ear seals and not pinched underneath.
- With 1-2 “clicks”, move each ear dome up into the headband making sure both right and left are adjusted equally. Expect to feel slight upward pressure on the bottom of your ear lobe. This assures the domes are above your jawbone.
- Position the mic about 1/8" from your mouth.

## Battery Box Controls

The tear-shaped control box uses two AA batteries to supply power to the headset's Active Noise Reduction (ANR) circuit. The control box also houses the various boost features and provides a port for the use of a cell phone or personal listening device, such as a compact disc player or MP3 unit.



Top View



Bottom View

**We Recommend  
Alkaline AA Batteries.  
Non-Alkaline Batteries  
Decrease Available  
Operation 40% to 70%.**

## **I Auxiliary Audio Input Jack**

Your 3G Series product has a unique and patent-pending feature that allows you to interface either a cell phone or personal music device into your headset audio line. To make this feature fully usable for all flying conditions, we also added a 'Comm priority' mode that will automatically mute 80% of the auxiliary audio signal. This allows you to easily hear radio and intercom communications above any auxiliary audio input. This muting feature can easily be turned on or off during flight as needed.

There are a few general instructions for optimal use of this suite of features and then some specific instructions for separate devices below. The Auxiliary input jack is enabled when the ANR system is activated. Make sure the power button is "On" before trying to use ANY device through this jack. Listening volume for audio from the auxiliary device is controlled BY THE VOLUME CONTROL ON the auxiliary device. The volume controls on the battery box are designed to control volume from the radio or intercom. Set/keep your volumes for the headset at the levels you need to hear Radio and intercom communications. The level of the auxiliary input device must be set/controlled from the device itself. The headset should be initially received set in "Comm Priority" Mode. This means that any audio coming from an intercom or Radio will 'mute' any auxiliary audio signal. The feature can be turned on or off by depressing and holding the EQ button down for over 5 sec. Once released, the mode will change. Depress and hold again and it will switch back to its previous state.

The Sidetone EQ features directly affect the audio characteristics of ALL audio...both radio/intercom communication and any auxiliary audio input. Utilize this feature to optimize the audio characteristics of either or both sources as you deem best.

A unique cable is provided for either type of input. Below are specific instructions and warnings associated with various devices.

### **Cell Phone usage**

Interface cable: Use the cable with a smaller (2.5mm) straight plug. It is the evolving standard for handsfree headsets in the cell phone market and many phones have a direct interface from this plug into the phone. For those that do not, adapters are readily available as a LightSPEED accessory or for some models through a phone store or electronics outlet that carries cell phone accessories.

**Caution:** *The FCC only allows the use of a cell phone within the cockpit when the plane is on the ground. By offering the cell phone interface on the control box LightSPEED Aviation does not promote the use of your cell phone while in the air. If you choose to use your cell phone in the air, you do so in violation of FCC rules and at your own risk. The FAA has no position on the use of cell phones either while on the ground, or in the air. However, it is the duty of the pilot in command to be sure that electronic devices used in the plane do not conflict with the proper operation of the aircraft or its systems.*

\*We don't promise that this will work with all phones. Contact LightSPEED if yours does not.

## **Music input (CD or MP3)**

Use the cable that has both (2) right angle plugs, **making sure you insert the 4 band plug into the battery box and the 3 band plug into your music device.**

Elect whether you want to be in “Comm priority” mode or not. Based on this, you’ll make a different volume setting on the auxiliary device.

**\*\*Warning:** The dB level for transmission of auxiliary audio components such as cell phone, or CD players can exceed the safe hearing limits. Do Not plug in one of these components without first setting volume levels of input component to minimum. Gradually increase the audio component volume until desired levels are reached. Headset volume controls DO NOT control the volume level of auxiliary audio components.

The EQ features will really be noticeable when a music source is plugged in. Make sure to try the different modes to see which is optimal for your listening pleasure.

## **② ANR Power Button / Battery Level Indicator**

The oval Power button controls the headset’s ANR and other functions. The button is counter intuitive to what you might think. To turn the power on, press the button so it’s in the outward position. A flashing green LED light above the power button indicates the power is on. This green flashing light will change to Red when battery power runs low. The ANR feature will activate within two seconds. It will continue to function until (1) the power is turned off by pressing the Power button again, or (2) the headset is removed from the user’s head and placed aside for at least several minutes.

### **3** *Dual Volume Controls*

These controls provide separate volume levels in each ear cup. Move the slide switches up and down to change the volume levels.

### **4** *Tone Selection Switch*

The EQ button activates the boost features – Bass boost, Treble boost, boost both bass, or no boosting at all. To change the setting, turn on the headset with the Power button. If the Bass-Boost or Treble-Boost setting has already been selected, the appropriate glowing LED will indicate that selection. Press the EQ button once while the LED is glowing. The next choice will light. Press the EQ button again while the LED is glowing to move to the next selection, and so forth. Both LEDs indicate both treble and bass boost are operating. If neither LED is glowing, there is no boost.

**Note:** If the operator is listening to a personal listening device, or talking on their cell phone, an incoming radio transmission will cause the auxiliary audio to drop out, allowing the incoming transmission to be picked up by the operator. This ‘muting’ feature can be disabled so the music or cell phone is not muted by incoming transmission by pressing and holding down the EQ button for about 5 seconds.

### **5** *Tone Boost Indicator Lights*

BB is Bass Boost indicator, and TB is Treble Boost indicator. BB or TB LED indicator will be lit when accessing that feature.

### **6** *MONO/STEREO Selector Switch*

Your 3G headset can be used compatibly with either a Monaural or Stereo intercom system. With the slide switch in the left position, it is in Stereo. When moved to the right, it is in Mono. **If you are only receiving audio in one ear, move the slider to the right.**

## ***Five Year Limited Warranty to Original Purchaser***

The LightSPEED Twenty 3G and Thirty 3G Aviation Headset is guaranteed against malfunction due to defects in materials and workmanship for a period of five years, beginning at the date of original purchase. If such a malfunction occurs, the product will be repaired or replaced (at our option) without charge during the period and under the limitations stipulated in the data sheet or owner's manual (if any) for that individual product. If delivered prepaid to the LightSPEED warranty service center, the unit will be returned prepaid. Warranty does not extend to finish, appearance items, or malfunctions due to abuse or operation other than specified conditions, nor does it extend to incidental or consequential damages, so the above exclusion may not apply to you. Repair by other than LightSPEED or its authorized service agencies will void this guarantee. Information on authorized service agencies is available from LightSPEED Aviation, Inc.



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