

# FIXED-WING FLIGHT HELMET

## QUICK REFFERENCE GUIDE



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## 2021 Quick Reference Guide

# INTRODUCTION

FlightHelmet.com specializes in the sales and service of flight helmets, flight helmet communications equipment, flight clothing, safety, and survival equipment. We build and carry both fixed-wing flight helmets and Helicopter flight helmets. We are a full-service independent helmet company that services all makes/models of helmets. We offer Lightspeed Zulu H-Mod ANR installations as well as other communications upgrade options.

*We take pride in our work and the quality of our products.*



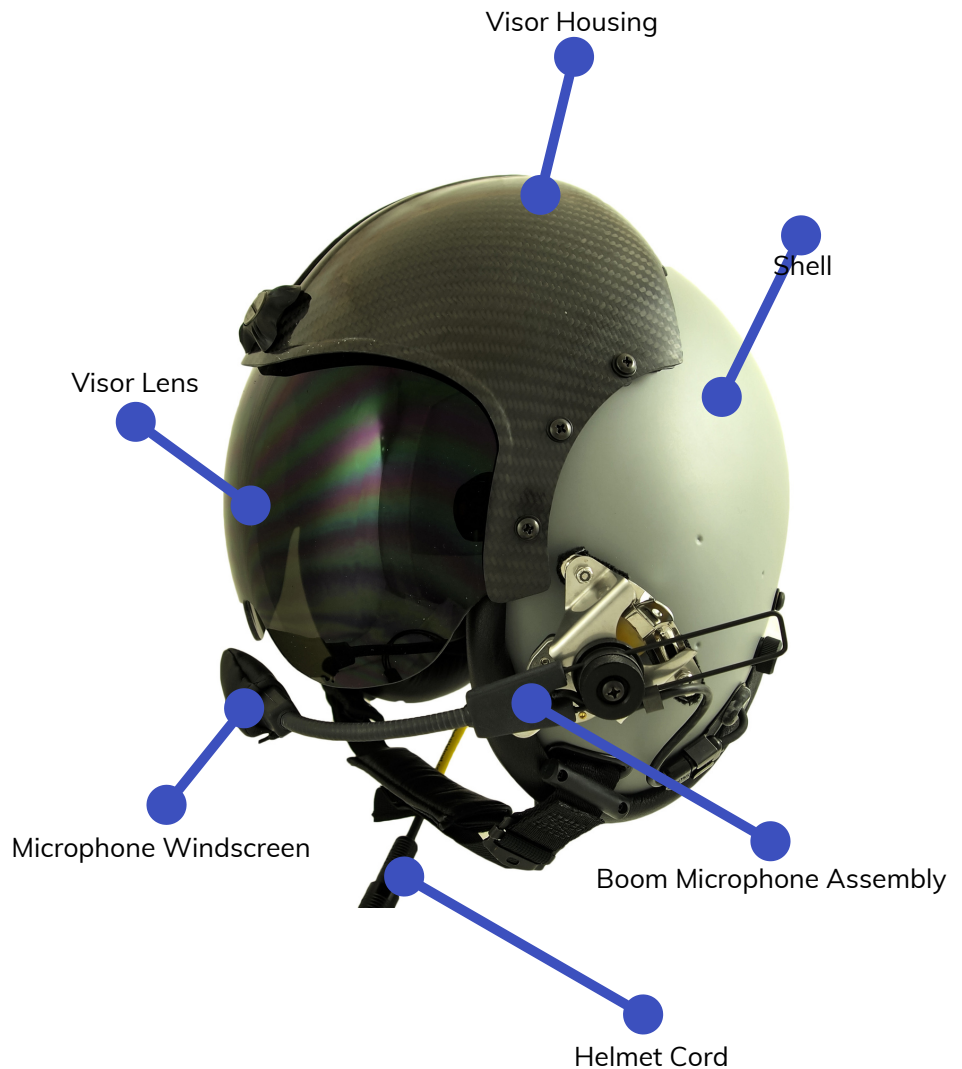
The main purpose of flight helmets is to house communications equipment and provide basic head protection. The shell and liners provide impact protection. Earphones and microphones allow clear communications. The earphones being within the helmet in combination with ear seals also offers some reduction to environmental noise. The addition of an ANR (active noise reduction) system adds to the reduction of noise. The use of the visor gives eye protection.

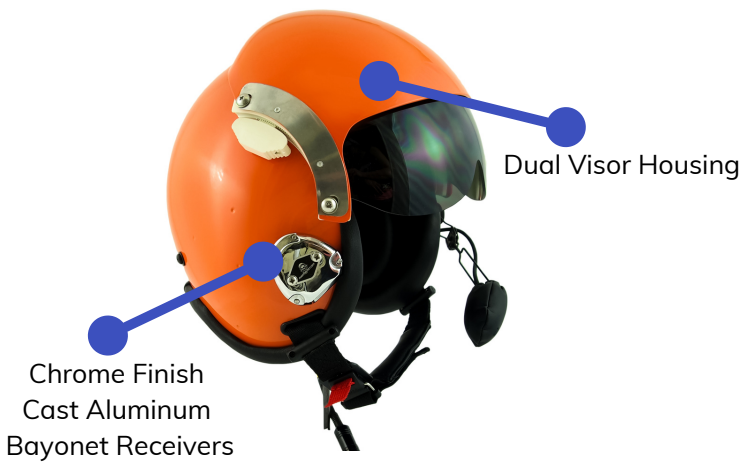
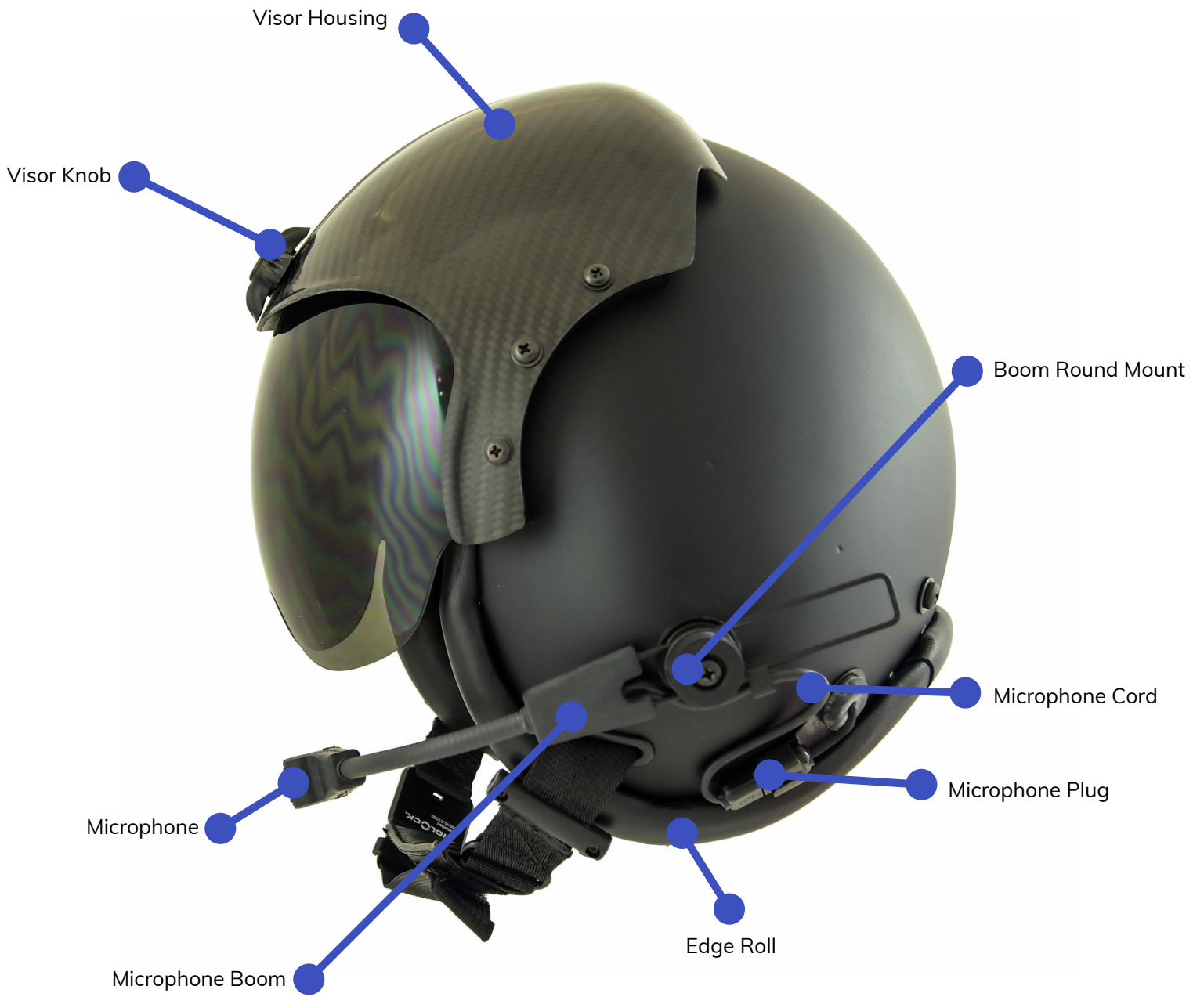


## Fixed-Wing Helmets

# OVERVIEW

Our fixed-Wing Flight Helmets are available in three visor styles; Bungee Visor (single and double), Single Fixed Visor, and Dual Fixed Visor. The sizes available are Medium, Large, and Extra Large. The shell is either Kevlar or Carbon Fiber Composite and painted your color of choice. The edge roll is leather. Liners installed are a styrene liner for impact protection and an Oregon Aero Zeta Liner for cushion and comfort. Earcups come in various styles depending on choice and the choice of communications chosen. Communication electronics include earphones, boom microphone, and helmet cord. If ANR is installed there is also a quick disconnect and ANR Control Module. Chin straps are either standard or the Fidlock Quick Release Buckle. Bayonet receivers can be installed for oxygen mask use.







Interior of Helmet showing edge roll, earcups, ear seals, and Oregon Aero Zeta Liner



Interior of Helmet showing edge roll, ear seals, and nape strap.



Coiled Helmet Cord with Single Plug



Straight Helmet Cord with Dual G/A Plugs

# HELMET COMPONENTS AND CARE

## SHELL AND EDGE ROLL

Shell: Kevlar or Carbon Fiber Composite. Sizes Medium, Large, and Extra Large. Painted or Carbon Fiber. Custom Graphics.

Edgeroll: Black, Gray, or Brown Leather

Care: Wipe with a clean soft cloth. Use mild cleaner if needed.

## VISOR HOUSING

Bungee Visor, Single Fixed Visor Housing, Double Fixed Visor Housing. Visor Lens: Dark, Clear, Amber.

Care: Wipe with a clean soft cloth. Use mild cleanser if needed.

## LINER: OREGON AERO

Oregon Aero Zeta Liner, soft memory foam comfort liner.

Care: Oregon Aero Zeta Liner can be removed and hand-washed with a gentle cleanser. Rinse thoroughly. Set on a towel and fold the towel over, gently press towel, do not wring. Hang to air dry completely before reinstalling.

## LINER: STYRENE

Polystyrene impact liner.

Care: Wipe with a clean soft cloth. Use mild cleaner if needed.

## CHINSTRAP & NAPESTRAP

Chinstrap and Napestrap are used to secure the helmet on the wearer's head. Chinstrap allows for adjustment for a secure fit. Straps are integrated into the helmet. Chinstrap style is either the Fidlock Quick Release Buckle or Standard Snap.

Care: Wipe with a clean soft cloth. Use mild cleaner if needed.

## EARCUPS AND EAR SEALS

Earcups house and hold the communication earphones for use. Depending on the system they may be changed or replaced. Ear seals come in various styles and thicknesses.

Care: Wipe with a clean soft cloth. Use a mild cleaner on the cloth if needed. Do not submerge.

## EARPHONES

Earphones allowing for communications will be either civilian impedance or military and are installed within the earcups. There are standard earphones, as well as earphones made for use with ANR systems.

## MICROPHONE AND BOOM

Microphone allowing for communications will be either civilian impedance or military and is installed on the boom arm. Boom is installed on the helmet with a round mount.

Care: Wipe with a clean soft cloth. Do not submerge.

## MICROPHONE CORD

Connects Boom Microphone to the communications system.

## HELMET CORD

Connects helmet to communications systems in the plane. Standard and custom lengths. Single Plug, Dual G/A Plugs, Custom plugs and cords (i.e. G/A Plugs with 9V Power added, or quick disconnect option)

## Fixed-Wing

# FIT AND SIZING

Inches	Centimeters	Hat Size	Helmet Size
20 3/8 - 22 3/8	51.75 - 56.83	6 1/2 - 7 1/8	Medium
22 1/2 - 23 7/8	57.15 - 60.64	7 1/4 - 7 5/8	Large
24 0/0 - 25 0/0	60.96 - 63.50	7 3/4 - 8 1/4	Extra Large

Measure around the brow line for helmet size. Chinstrap can be adjusted for a secure fit. The Oregon Aero Zeta Liner is also available in different thicknesses, generally, we install 3/4 inch liners but depending on fit a thinner or thicker liner may be used instead.

## OPERATION

### Donning The Helmet

Release the chinstrap. Hold onto the bottom edge of the helmet just under the earcups, you may pull the helmet more open to fit it upon the head. Make sure the earcups are firmly situated within the helmet and adjust if necessary. The earcups are secured with velcro and may be repositioned for fit, to adjust pull gently from behind peeling from one side, pull slowly as to not pull the wiring that is connected from the earcups to the helmet. Once the helmet is on the chin strap can be adjusted, the fit should be secure to ensure the helmet does not slip or slide around.

### Using the Communications

Standard communications work after plugging in the helmet cord into the plane's communications ports. If using ANR (active noise reduction) a power source is needed to power the ANR, either by a battery pack or plane power with an addition to the helmet cord. Bose and Lightspeed ANR systems come with their own control modules which have battery packs for power. LEMO plug is an option for both Bose and Lightspeed which can power the ANR from the plane if the plane is set up for LEMO. Optional features such as a Microphone Boom/Oxygen Mask Switch allow for switching between oxygen mask communications and boom microphone communications without unplugging and replugging cords so safely switching between systems can occur during flight. Optional volume control or impedance switch can also be mounted on the cord or helmet.



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# CONTACT

Contact us with any questions or inquiries at:

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