

BOSE

AVIATION



PROFLIGHT
AVIATION HEADSET

NEW



A20
AVIATION HEADSET



**BOSE PROFLIGHT
AVIATION HEADSET**

In-ear configuration for pilots
of moderately noisy aircraft,
such as pressurized jets.

LEARN MORE AT [BOSE-AVIATION.EU](https://www.bose-aviation.eu)



Introducing the new Bose ProFlight Aviation Headset with new features designed for airline and corporate flight decks.

Designed for the professional pilot, the Bose ProFlight is the industry's smallest, quietest and most comfortable active noise cancelling communication headset and includes three user selectable levels of noise cancellation, a unique tap control for talk-through communication and quick release, side-swappable boom microphone and down cable. All engineered into a form factor unlike any other headset – a highly stable, in-ear configuration without the usual intrusive deep-insert eartips. The new Bose ProFlight is FAA TSO and EASA E/TSO-C139a certified.



- **Long-term comfort over extended flights.**
Our smallest, lightest, most comfortable headset yet – thanks to the unique new form factor.
- **139 grams / 4.9 ounces on-head weight.**
Helps enhance comfort over long periods of use.
- **Electret noise cancelling mic.**
Increases clarity and reduces background noise when transmitting, specifically for aircraft with “hot mic” or PTT systems.
- **Active equalization.**
Automatically shapes and equalizes the incoming signal for enhanced clarity and intelligibility.
- **Digital active noise cancellation.**
Significantly reduces ambient noise, allowing users to lower radio volume and hear what they need to hear.
- **Three user selectable levels of noise cancellation.**
Allows for user preference and aircraft noise environment.
- **Tap control for talk-through communication.**
Double tapping either earbud allows for optimized voice communication outside of the intercom.
- **Bluetooth® connectivity and audio prioritization.**
Connect wirelessly to mobile devices, audio systems and electronic flight bags. Audio prioritization allows users to mix *Bluetooth®* audio with intercom audio, or have intercom transmissions temporarily mute *Bluetooth®* 100%.
- **Quick release side-swappable mic and down cable.**
Mount the boom mic and down cable on either side of the headset. No tool required.
- **FAA TSO & EASA E/TSO-C139a certified.**
Compatible across multiple TSO certified systems, including Honeywell, Becker, Garmin, PS Engineering and Rockwell Collins.

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**BOSE A20
AVIATION HEADSET**

Around-ear configuration
for higher noise environments.

LEARN MORE AT [BOSE-AVIATION.EU](https://www.bose-aviation.eu)



Acclaimed performance. The difference is clear.

The Bose A20 was designed for best-in-class active noise reduction – and provides ANR that's 30% greater than conventional aviation headsets, enhanced comfort, clear audio and intuitive operation. No matter what you fly, the Bose A20 is engineered to improve the experience.



- **Acclaimed noise reduction.**
30% greater active noise reduction than conventional headsets.
- **Comfortable, stable fit.**
30% less clamping force than conventional headsets.
- **Clear audio with active equalization.**
- **Bluetooth® connectivity for audio and communications.**
- **Customizable audio prioritization.**
Choose from "mute" or "mix" communication settings.
- **Simple, intuitive headset operation.**
Plug it in, turn it on, go flying.
- **Available in a variety of plug configurations.**
Straight or coiled cord.
- **Side-swappable boom mic and cable.**
- **Flexible power with auto-on*.**
Switch seamlessly between battery and aircraft power.
- **FAA TSO and EASA E/TSO-C139 certified.**
- **Lightweight magnesium headband.**
For a highly durable headset that weighs in at just 340 grams / 12 ounces.
- **High-performance noise cancelling microphone.**
- **At least 45 hours.**
Two alkaline AA batteries power at least 45 hours of use.

**Available in certain variants of the headset.*

PROFLIGHT ADDITIONAL DETAILS AND ACCESSORIES

ALTITUDE FOR NON-PRESSURIZED CABINS

15,000 feet maximum for full noise reduction

POWER SOURCES

Battery power: 3 volts, 2 AA alkaline batteries (average battery life: 45 hours)

Aircraft power: Operating voltage range, 10 to 32 VDC

Power consumption: 500 mW for average use

FUSE/BREAKER RECOMMENDED

¼-amp, fast-blow fuse (AGC ¼-amp fuse) or

½-amp circuit breaker

HEADSET INPUT IMPEDANCE

Monaural mode: 300 Ohms

Binaural mode: 600 Ohms

WEIGHT

139 grams / 4.9 ounces on-head

CABLE LENGTH

Headset to control module: 1.33 m

Control module: 0.1 m

Control module to aircraft: 0.58 m

Total: 2.0 m

MICROPHONE (ELECTRET)

Bias voltage range: 4 to 28 VDC

Sensitivity: -27dBV (+/- 2.5dB) at 94dB SPL (1 Pa), measured at 6mm distance from artificial mouth, across 220 Ohms load resistor and biased with 12 VDC via 470 Ohms resistor.

BLUETOOTH® COMMUNICATIONS INTERFACE

Bluetooth® 4.2, hands-free profile, A2DP, AVCRP, multi-point

FAA TECHNICAL STANDARDS ORDER (TSO)

Bose ProFlight Aviation Headset, its interface, cables and electret boom microphone are certified to the Federal Aviation Administration's Technical Standard Order number TSO-C139a. The headset system has been designed to function per headset performance requirements described in RTCA/DO-214A and to withstand exposure to the environmental conditions described within RTCA/DO-160G, as well as several other environmental tests, including those for humidity, salt spray, temperature cycle and shock. This enables long life and durability in the real world.

IN-BOX ACCESSORIES:

Two AA batteries, three sets of StayHear+ tips (large, medium and small; medium tips are already attached to the earbuds), a control module holder and a carrying case.

AVAILABLE CONFIGURATIONS:

DUAL GENERAL AVIATION (G/A) PLUG

Battery powered only

AIRCRAFT-POWERED 6-PIN LEMO CONNECTOR

Flex Power

AIRCRAFT-POWERED 5-PIN AND 7-PIN XLR CONNECTOR

Flex Power

AVAILABLE ACCESSORIES:

HEADSET CABLE, DUAL GENERAL AVIATION (G/A) PLUG

HEADSET CABLE, 5-PIN XLR

HEADSET CABLE, 6-PIN LEMO

HEADSET CABLE, 7-PIN XLR

6-PIN TO DUAL G/A PLUG ADAPTER

STAYHEAR+ TIPS (SMALL, 2 PAIRS)

STAYHEAR+ TIPS (MEDIUM, 2 PAIRS)

STAYHEAR+ TIPS (LARGE, 2 PAIRS)

SIDE CUSHIONS

MICROPHONE WINDSCREEN COVER

HEADBAND PAD

CARRYING CASE

TERMINATION CAP

CABLE CLOTHING CLIP

SERVICE ACCESSORY KIT

Includes headband cushion, mic windscreen and side pads

CONTROL MODULE LANYARD



A 20 ADDITIONAL DETAILS AND ACCESSORIES

ALTITUDE FOR NON-PRESSURIZED CABINS

15,000 feet maximum for full noise reduction

POWER SOURCES

Battery power: 3 volts, 2 AA alkaline batteries (average battery life: 45 hours)

Aircraft power: Operating voltage range 10 to 32 VDC

Power consumption: 500 mW for average use

CURRENT

Operating: 25 mA in typical aircraft noise

FUSE/BREAKER RECOMMENDED

¼-amp, fast-blow fuse (AGC ¼-amp fuse) or ½-amp circuit breaker

HEADSET INPUT IMPEDANCE

Monaural mode: 160 Ohms ON and OFF

Stereo mode: 320 Ohms ON and OFF

WEIGHT

340 grams / 12 ounces

CABLE LENGTH

Headset to control module: 0.97 m

Control module: 0.1 m

Control module to aircraft: 0.59 m

Total: 1.66 m

MICROPHONE (ELECTRET)

Bias required: 6 to 16 VDC through 220 to 2200 Ohms
Sensitivity: Varies depending on bias and AC radio input impedance. Typical output is 600 mV at 114 dB SPL. To assure proper modulation of the radio, it is recommended that an avionics technician adjust its input to match the output of the microphone.

MICROPHONE (DYNAMIC)

Impedance: 5 Ohms

Sensitivity: Equivalent to M-87/M-101

BLUETOOTH® COMMUNICATIONS INTERFACE

Hands-free profile, A2DP, AVCRP, multi-point, *Bluetooth*® 3.5

FAA TECHNICAL STANDARDS ORDER (TSO)

Bose A20 Aviation Headset, its interface, cables and electret boom microphone are certified to the Federal Aviation Administration's Technical Standard Order number TSO-C139. The headset system has been designed to function per headset performance requirements described in RTCA/DO-214 and to withstand exposure to the environmental conditions described within RTCA/DO-160F, as well as several other environmental tests, including those for humidity, salt spray, temperature cycle and shock. This enables long life and durability in the real world.



CONFIGURATION INFORMATION:

Different cable configurations may be purchased separately and added easily with no need for adapter plugs. A coil cord down cable is also available in U174, Dual G/A and other popular configurations. In-box accessories: two AA batteries, a male-to-male 3.5 mm aux-in adapter cable and a carrying case.

AVAILABLE CONFIGURATIONS:

DUAL GENERAL AVIATION (G/A) PLUG

Battery powered only

AIRCRAFT-POWERED 6-PIN LEMO CONNECTOR

Flex Power

AIRCRAFT-POWERED 5-PIN XLR CONNECTOR

Flex Power

U174 CONNECTOR

Battery powered only

CHOOSE FROM THE FOLLOWING COMPLETE HEADSET OR CABLE OPTIONS:

DYNAMIC MIC:

- Complete headset model coil cord down cable, *Bluetooth*® module and 150 Ohm dynamic mic
- Cable only, coil cord with *Bluetooth*® module and 150 Ohm dynamic mic

ELECTRET MIC:

- Complete headset model coil cord down cable, *Bluetooth*® module and electret mic
- Cable only, coil cord with *Bluetooth*® module and electret mic
- Cable only, coil cord, electret mic without *Bluetooth*®

High impedance - for most U.S. general aviation aircraft

AVAILABLE ACCESSORIES:

ADDITIONAL CONTROL MODULE CABLE

Available with or without *Bluetooth*® communications module
Available connector types: Dual G/A, 6-pin aircraft powered LEMO, 8-pin aircraft powered Fischer, 5-pin aircraft powered XLR, or U174 (battery powered)

6-PIN CONNECTOR TO DUAL G/A PLUG CABLE ADAPTER

6-PIN CONNECTOR TO U174 CABLE ADAPTER

REPLACEMENT EAR CUSHION KIT

REPLACEMENT HEADBAND CUSHION

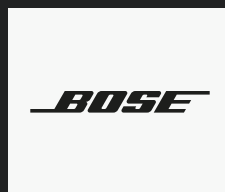
REPLACEMENT MICROPHONE WINDSCREEN

AIRCRAFT PANEL CONNECTOR INSTALLATION KIT

Wire harness for the 6-pin connector configuration

SERVICE ACCESSORY KIT

Includes replacement ear cushions, microphone windscreen and headband cushion






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