

# BOSE PROFLIGHT SERIES 2 AVIATION HEADSET

In-ear configuration engineered for pilots operating moderately noisy pressurised turbine powered aircraft.





# **Bose ProFlight Series 2** Aviation Headset, with features designed for airline and corporate flight decks.

The ProFlight Series 2 builds upon the advanced technology of the original and is the most lightweight, compact and comfortable aviation headset Bose has ever produced. ProFlight Series 2 is engineered and refined for the way professional pilots fly and offers numerous updates and enhancements based on pilot input. ProFlight Series 2 features a lighter, thinner more flexible cable providing increased freedom of movement and improved tap control for talk-through communication. Like the original, the ProFlight Series 2 is FAA TSO and EASA E/TSO-C139a certified. Additionally, a non-Bluetooth® variant of the ProFlight Series 2 is available.



### · FAA TSO and EASA E/TSO-C139a certified. Compatible with TSO certified systems.

· 128 grams (4.5 ounces) on-head weight. For enhanced comfort during extended use.

### · Thin, flexible cable.

· Digital active noise cancellation.

Allows freedom of movement and easy storage.

### Reduces ambient noise, allowing users to lower radio volume.

· User selectable noise cancellation. Customise noise reduction according to personal preference.

### · Long term durability.

Designed and tested for demanding cockpit environments.

### · Optimised audio.

Active equalisation clarifies incoming audio.

### · Updated tap control for talk-through communication. Double tap either earbud to optimise audio for

### · Bluetooth® connectivity and audio prioritisation.

Full-function Bluetooth\* enables connections to phone, tablet or EFBs. Prioritisation controls how Bluetooth® audio interacts with the intercom system.

### · Non-Bluetooth® headset variant available.

communication outside of the intercom

### · Multiple plug types.

Available with twin plug, 5 pin XLR or 6 pin LEMO plug configurations.

### Automatic shutoff.

Powers down automatically when not in use.

### · Quick-release, side swappable mic and cable.

Attach on either side - no tools required.

### · Easily adjustable mic.

Mic winglets allow for precise mic and boom adjustments.

### · Exceptional battery life.

Two AA alkaline batteries power 45+ hours of use with Bluetooth® off and at least 25 hours with Bluetooth® on.

### Replaceable silicone StayHear+ tips.

Easily removed and replaced without tools.

### Available custom molded ear tips.

For purchase through Bose-authorised partners.

### · Bypass communications mode.

Provides primary intercom audio with or without power.

### · Five-year limited warranty with acclaimed service.

Worldwide coverage.

# BOSE A20 AVIATION HEADSET

Around-ear configuration for higher noise environments like those found in turboprop and piston engine aircraft.



LEARN MORE AT BOSEAVIATION-APAC.AERO



# 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.



### · FAA TSO and EASA E/TSO-C139 certified.

### · Acclaimed noise reduction.

30% greater noise reduction than conventional aviation headsets.

### · Comfortable, stable fit.

30% less clamping force than conventional aviation headsets.

### · 340 grams (12 ounces) on-head weight.

The lightest aviation headset in the "around-ear, full-feature headset" category.

- · Clear audio with active equalisation.
- · Bluetooth® connectivity for audio and communications.
- · Customisable audio prioritisation.

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.

### · Lightweight magnesium headband.

For a highly durable headset that weighs in at just 340 grams (12 ounces).

### · High-performance microphone.

### · At least 45 hours.

Two AA alkaline batteries power at least 45 hours of use.

 $<sup>{}^*\!</sup>Available$  in certain variants of the headset.

# PROFLIGHT SERIES 2 ADDITIONAL DETAILS AND ACCESSORIES

### **ALTITUDE FOR NON-PRESSURISED 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**

 $\frac{1}{4}$ -amp, fast-blow fuse (AGC  $\frac{1}{4}$ -amp fuse) or  $\frac{1}{2}$ -amp circuit breaker

### **HEADSET INPUT IMPEDANCE**

Monaural mode: 300 Ohm Binaural mode: 600 Ohm

### WEIGHT

128 grams (4.5 ounces) on-head

### **CABLE LENGTH**

Headset to control module: 1.33 m (52.4 inches) Control module: 0.1 m (3.9 inches)

Control module to aircraft: 0.58 m (22.8 inches)

Total: 2.0 m (79.1 inches)

### MICROPHONE (ELECTRET)

Bias voltage range: 4 to 28 VDC

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

### **BLUETOOTH®** COMMUNICATIONS INTERFACE

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

### FAA TECHNICAL STANDARDS ORDER (TSO)

Bose ProFlight Series 2 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 alkaline batteries, three sets of StayHear+ tips with pouch (large, medium and small; medium tips are already attached to the earbuds), a control module lanyard and a carrying case with carabiner.

### **AVAILABLE CONFIGURATIONS:**

### **DUAL PLUG**

Battery powered only

### **AIRCRAFT POWERED 5 PIN XLR CONNECTOR**

Flex Power

### AIRCRAFT POWERED 6 PIN LEMO CONNECTOR

Flex Power

### **AVAILABLE ACCESSORIES:**

**HEADSET CABLE, DUAL PLUG (BLUETOOTH\*)** 

**HEADSET CABLE, DUAL PLUG (NON-BLUETOOTH\*)** 

**HEADSET CABLE, 5 PIN XLR (BLUETOOTH\*)** 

**HEADSET CABLE, 5 PIN XLR (NON-BLUETOOTH\*)** 

**HEADSET CABLE, 6 PIN LEMO (BLUETOOTH\*)** 

6 PIN TO DUAL PLUG ADAPTER

STAYHEAR+ TIPS (SMALL, 2 PAIRS)

STAYHEAR+ TIPS (MEDIUM, 2 PAIRS)

STAYHEAR+ TIPS (LARGE, 2 PAIRS)

SIDE PAD CUSHIONS

MICROPHONE WINDSCREEN COVER

**HEADBAND PAD** 

**CARRYING CASE** 

**TERMINATION CAP** 

**CABLE CLOTHING CLIP** 

### SERVICE ACCESSORY KIT

Includes headband pad, microphone windscreen cover and side pad cushions.

CONTROL MODULE LANYARD

### A 2 O A D D I T I O N A L DETAILS AND ACCESSORIES

### **ALTITUDE FOR NON-PRESSURISED 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

### **HEADSET INPUT IMPEDANCE**

Monaural mode: 160 Ohm ON and OFF Stereo mode: 320 Ohm ON and OFF

### WEIGHT

340 grams (12 ounces)

### **CABLE LENGTH**

Headset to control module: 0.97 m (38.2 inches) Control module: 0.1 m (3.9 inches)

Control module to aircraft: 0.59 m (23.2 inches)

Total: 1.66 m (65.3 inches)

### MICROPHONE (ELECTRET)

Bias required: 6 to 16 VDC through 220 to 2200 Ohm 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 Ohm

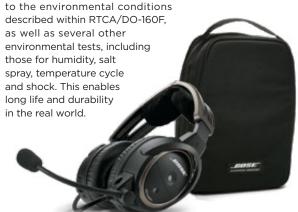
Sensitivity: Equivalent to M-87/M-101

### **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



### **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 alkaline 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

### **U174 CONNECTOR**

Battery powered only

### AIRCRAFT POWERED 5 PIN XLR CONNECTOR

Flex Power

### AIRCRAFT POWERED 6 PIN LEMO CONNECTOR

Flex Power

### **AIRCRAFT POWERED 8 PIN FISCHER CONNECTOR**

Flex Power

# 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: Battery (2x AA alkaline) powered dual G/A and U174, and aircraft powered 5 pin XLR, 6 pin LEMO, and 8 pin Fischer

# 6 PIN LEMO CONNECTOR TO DUAL G/A PLUG CABLE ADAPTER

**6 PIN LEMO CONNECTOR TO U174 CABLE ADAPTER** 

REPLACEMENT EAR CUSHION KIT

REPLACEMENT HEADBAND CUSHION

REPLACEMENT MICROPHONE WINDSCREEN COVER

### AIRCRAFT PANEL CONNECTOR INSTALLATION KIT

Wire harness for the 6 pin connector configuration

### SERVICE ACCESSORY KIT

Includes replacement ear cushions, microphone windscreen cover and headband cushion



LEARN MORE AT BOSEAVIATION-APAC.AERO

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