

A pilot is shown in profile, wearing a black Bose A20 Aviation headset with a boom microphone. The pilot is looking out of the cockpit window at a landscape. The cockpit interior, including a control panel with a screen, is visible in the background. The Bose logo is prominently displayed on the side of the headset.

**BOSE**

AVIATION

A20 AVIATION HEADSET

**Acclaimed  
performance.  
The difference  
is clear.**

# An unmatched combination of active noise cancellation, comfort and clear communication.

No matter why you fly, the Bose A20 Aviation Headset is engineered to improve the experience. It provides 30% greater active noise reduction than conventional aviation headsets, which helps you stay focused on your flying. It provides clear audio with active equalisation. And its minimal clamping force makes even your longest flights more comfortable. In addition, the A20 headset offers a full range of features, including a *Bluetooth*<sup>®</sup> audio and communications interface,\* customisable audio prioritisation control with “mute” and “mix” settings, simple, intuitive operation for plug-and-fly convenience, and an optional coil cord.\* You can choose the left or right earcup to connect the mic. There’s also flexible power circuitry\* with auto-on that switches to and from battery power and aircraft power. The A20 headset is certified to FAA TSO and EASA E/TSO-C139 standards. It’s among the lightest of all around-ear active noise cancelling headsets, with a weight of just 340 grams (12 ounces). No other headset offers this unique combination of features and benefits.

## FEATURES AND BENEFITS

### 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 equalisation

### *Bluetooth*<sup>®</sup> 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

### 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 AA alkaline batteries power at least 45 hours of use



*\*Available in certain variants of the headset.*



## 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.

### AVAILABLE CONFIGURATIONS

#### Battery powered

Dual General Aviation (G/A) plug  
U174 connector

#### Aircraft powered

5 pin XLR connector  
6 pin LEMO connector  
8 pin Fischer connector

### CHOOSE FROM THE FOLLOWING COMPLETE HEADSET OR CABLE OPTIONS

#### Dynamic mic

Complete headset model coil cord down cable, *Bluetooth*<sup>®</sup> module and 150 Ohm dynamic mic

Cable only, coil cord with *Bluetooth*<sup>®</sup> module and 150 Ohm dynamic mic

#### Electret mic

Complete headset model coil cord down cable, *Bluetooth*<sup>®</sup> module and electret mic

Cable only, coil cord with *Bluetooth*<sup>®</sup> module and electret mic

Cable only, coil cord, electret mic without *Bluetooth*<sup>®</sup> module

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

## AVAILABLE ACCESSORIES

#### Additional control module cable

Available with or without *Bluetooth*<sup>®</sup> 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 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 cover

#### Aircraft panel connector installation kit

Wire harness for the 6 pin connector configuration

#### Service kit

Includes replacement ear cushions, microphone windscreen cover and headband cushion





AVIATION

# Technology developed over 30 years. Appreciated in seconds.

## ADDITIONAL DETAILS

### 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 breaker

### 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  
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 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  
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 Standard Orders (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 and EASA E/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.

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