



To order or learn more about the  
A20® headset's enhanced features:

call +31 299 390 777

or visit us at [Bose.eu/A20](https://Bose.eu/A20)

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#WhyIFly #BoseA20

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***BOSE***  
Better sound through research

# Configuration Information

The A20<sup>®</sup> Aviation Headset comes in several configurations, allowing you to adapt it to your preferences and aircraft. Each headset comes complete with customizable audio prioritization control, a high-performance microphone that can be connected to either the left or right earcup, and an optional *Bluetooth*<sup>®</sup> audio and communications interface. Every A20<sup>®</sup> headset is easy to use and designed for intuitive operation. In-box accessories include two AA batteries, a male-to-male 3.5mm aux-in adapter cable and a carrying case. Because of the modular nature of the A20<sup>®</sup> Aviation Headset, 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 U-174, dual G/A and other popular configurations.

## Dual General Aviation (G/A) plug

**Complete headset model with *Bluetooth*<sup>®</sup> module: 324843-3020**

**Complete headset model without *Bluetooth*<sup>®</sup> module: 324843-2020**

Connects the headset to the aircraft's intercom system via a dual plug, and is not powered by the aircraft. Two alkaline AA batteries provide 45+ hours of operation while flying. Smart shutoff preserves battery life when the headset is not in use. When ordering, specify your headset with or without *Bluetooth*<sup>®</sup>.

### Cables:

**With *Bluetooth*<sup>®</sup> capability: 327070-3020**

**Without *Bluetooth*<sup>®</sup> capability: 327070-2020**

## Aircraft power 6-pin connector

**Complete headset model with *Bluetooth*<sup>®</sup> module: 324843-3040**

**Complete headset model without *Bluetooth*<sup>®</sup> module: 324843-2040**

Connects the headset to aircraft via a 6-pin connector, and is powered directly from the aircraft. Enable the auto-on toggle switch and the headset will turn on automatically when your avionics panel is turned on. Two AA alkaline batteries also can be used with the optional 6-pin connector to Dual G/A Plug Cable Adapter to provide increased flexibility (see Accessories section on the right). When disconnected from aircraft power, the headset seamlessly switches to battery power. When ordering, specify your headset with or without *Bluetooth*<sup>®</sup>.

### Cables:

**With *Bluetooth*<sup>®</sup> capability: 327070-3040**

**Without *Bluetooth*<sup>®</sup> capability: 327070-2040**

**Ask about other available configurations:**

**Tel.: +31 299 390 777**



## Battery-powered helicopter

U-174 single plug with coil cord down-cable and *Bluetooth*<sup>®</sup> audio and communications interface. Auto-off feature preserves battery life. Straight cord down-cable also available.



**Choose from the following complete headset or cable options:**

### Low impedance mic:

**Complete headset model coil down-cable with 5 ohm dynamic mic: 324843-T130**

**Complete headset model straight down-cable with 5 ohm dynamic mic: 324843-2130**

**Cable only, coil cord with 5 ohm dynamic mic: 327070-T130**

**Cable only, straight cord with 5 ohm dynamic mic: 327070-2130**

### High impedance mic:

**Complete headset model coil cord down-cable, *Bluetooth*<sup>®</sup> module and electret mic: 324843-T030**

**Cable only, coil cord with *Bluetooth*<sup>®</sup> module and electret mic: 327070-T030**

**Cable only, coil cord, electret mic without *Bluetooth*<sup>®</sup>: 327070-R030**

High impedance – for most general aviation aircraft.

# Technical Information

## Altitude

15,000 feet maximum for full noise reduction

## Voltage

**Battery power:** 3 volts (45+ hours from 2 AA alkaline batteries)

**Aircraft power:** 10 to 32 VDC

## 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

## Impedance

**Monaural mode:** 160 ohms ON and OFF

**Stereo mode:** 320 ohms ON and OFF

## Weight

340 grams

## 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, and EASA ETSO-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.

**5-year transferable limited warranty.**



# Accessories

## Additional Control Module Cable

- Specify *Bluetooth®* communications module or without *Bluetooth®* module
- Specify connector type: Dual G/A, 6-pin aircraft powered, 8-pin aircraft powered, 5-pin XLR or U-174

## 6-Pin Connector to Dual G/A Plug Cable Adapter

Allows a headset with a 6-pin connector to connect into a standard Dual G/A plug for additional connection flexibility.  
**327080-0010**

## 6-Pin Connector to U-174 Cable Adapter

Allows a headset with a 6-pin connector to connect into a U-174 plug for additional connection flexibility.  
**327080-0020**

## Replacement Ear Cushion Kit

Supple ear cushions. One pair.  
**327079-0010**

## Replacement Headband Cushion

Sheepskin headband cushion for comfortable on-head fit.  
**327078-0010**

## Replacement Microphone Windscreen

Windscreen muff to protect the boom microphone element.  
**16003**

## Aircraft Panel Connector Installation Kit

Wire harness for the 6-pin connector configuration.  
**323172-0010**

## Service Kit

Includes replacement ear cushions, microphone windscreen and headband cushion.  
**331366-0010**

Why I fly.

**Bose® A20®**  
Aviation Headset

**Now with enhanced features.**

***BOSE***



*"I fly because  
it's in my blood."*

Michael Goulian // Champion Aerobatic & Air Race Pilot

I started flying when I was about fifteen years old. My dad brought me to the airport as a summer job, and that's when I realized what I wanted to do for the rest of my life. I don't get to do a lot of pleasure flying, so when I have my family with me, it's a glorious day. We all wear Bose A20 headsets. When you turn them on, there's an amazing change where you go from this rumbling engine to a quiet airplane. It really allows us to enjoy the experience.

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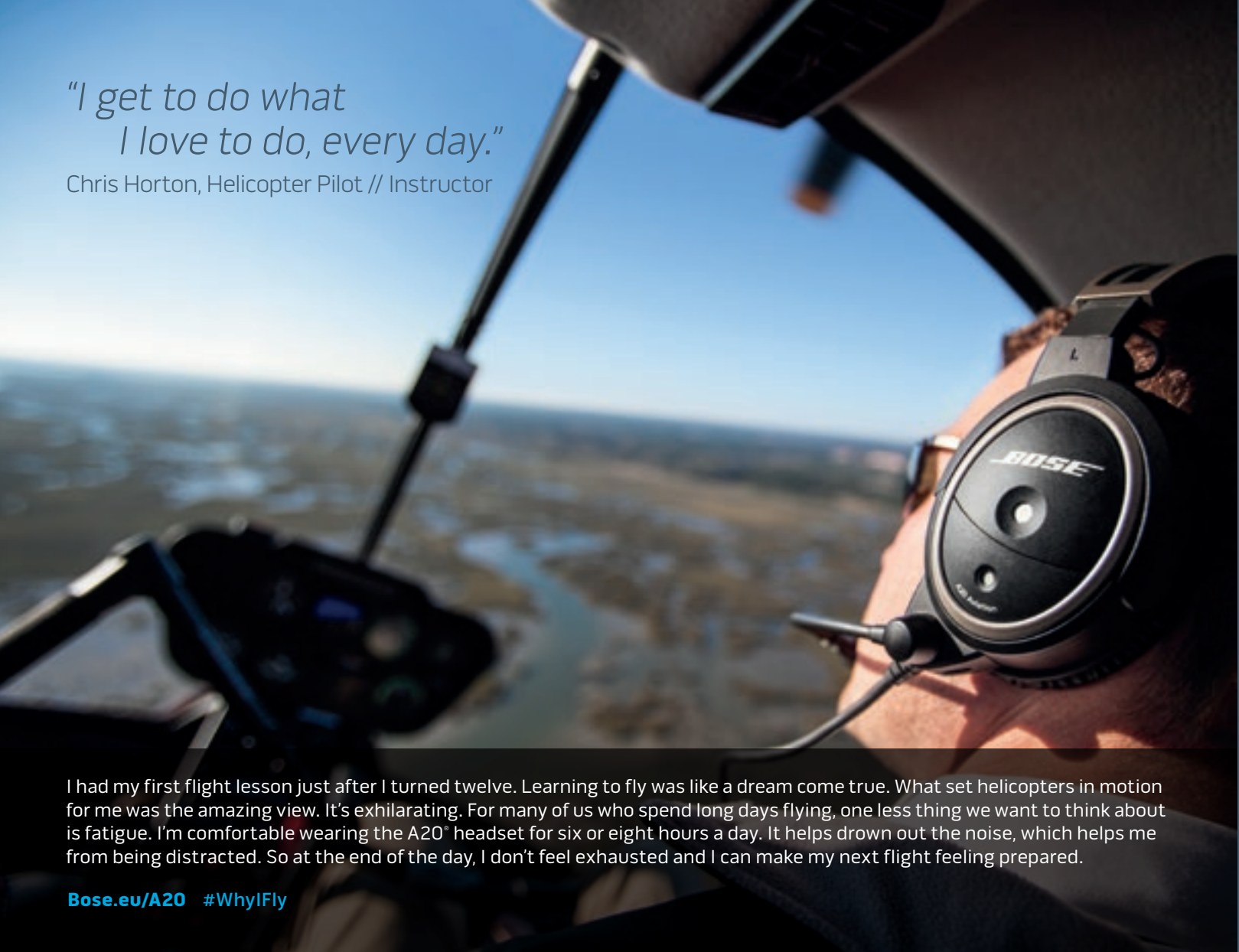
*“To capture  
the beauty of flight.”*

Jessica Ambats, Pilot // Aviation Photographer



I've always been interested in photography and looking at the world through a camera. And I've always been fascinated with airplanes. I met people who had made careers out of doing the two things I loved, so that's when it sort of clicked in my mind. As a photographer in the air, it's my job to direct other pilots. The environment is very noisy and you need to be able to hear clearly and communicate clearly. That's where the A20 headset comes in.

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*"I get to do what  
I love to do, every day."*

Chris Horton, Helicopter Pilot // Instructor

I had my first flight lesson just after I turned twelve. Learning to fly was like a dream come true. What set helicopters in motion for me was the amazing view. It's exhilarating. For many of us who spend long days flying, one less thing we want to think about is fatigue. I'm comfortable wearing the A20<sup>®</sup> headset for six or eight hours a day. It helps drown out the noise, which helps me from being distracted. So at the end of the day, I don't feel exhausted and I can make my next flight feeling prepared.

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# Bose® A20®

## Aviation Headset

### Now with enhanced features:

- Acclaimed noise reduction
- Comfortable, stable fit
- Clear audio with active equalization
- **Bluetooth® for audio and communication\***
- **Customizable audio prioritization**
- Simple, intuitive headset operation
- Microphone connection for left or right earcup
- **Flexible power with auto-on\***
- Certified to FAA TSO-C139 and EASA ETSO-C139
- **High-performance microphone**
- 45 hours of battery life

\*Available in certain variants of the headset.



Auto-on and Auto-off functionality

Bluetooth® for audio and communications devices

Customizable audio prioritization

Microphones both inside and outside each earcup constantly measure noise

Sophisticated electronics reduce noise with a more accurate "cancelling" signal than before

High-performance microphone

Proprietary ear cushions help provide passive noise reduction and a comfortable fit

Switch the mic and cable to either the left or right earcup

Comfort is maximized through choice of materials and weight distribution

Exclusive design allows more room for the ears without increasing earcup size

**An optional coil cord down-cable is available.**