

BendixKing



AeroPanel 100

Advanced Audio Panel for General Aviation Aircraft

Enjoy perfect sound quality with an easy-to-use, state-of-the-art audio panel

The AeroPanel 100 audio panel is a highly-advanced product designed to be easy to use and with connectivity choices that you expect from a world-class modern audio panel. The technologically-advanced, cost-effective AeroPanel 100 is a feature-rich system that is perfect for the pilot, the crew and the passengers – each getting their own audio streams when and where needed. It is quite possibly one of the best price-to-performance audio panels ever engineered for general aviation purpose.



AeroPanel 100

PRODUCT DETAILS

Easy-to-use

AeroPanel 100 offers a wide range of features that help you make your flight more enjoyable not only with a rich sound system but with easy-to-use interfaces and functions. The intelligent AeroPanel 100 requires near-zero training time, no need for memorization of actions and no need to re-learn at any time. All buttons are clearly marked, with intuitive functions that you are already used to in your previous audio panels. There is no need for a “cheat-sheet” that may be required in competing products. Practically, all functions are easily accessible via the buttons on the front panel.

Connectivity

Bluetooth® connectivity, expected from any advanced audio panel, is a standard feature on AeroPanel 100. The major advantage that

AeroPanel 100 offers is its ability to pair more than one Bluetooth device at a time. Products that are unable to pair with more than one device at a time limit the ability of pilot/crew to listen to different streams at the same time. AeroPanel 100 can connect to two devices simultaneously. Additionally, the second Bluetooth module can stream audio that the pilot hears to a Bluetooth-enabled device, such as an iPhone (using a free iOS application called FlightLink®) or a video camera such as the Garmin VIRB®. This can be a great method to wirelessly stream audio to a digital video camera, for example when used as a training tool.

Essentially, the passengers will only hear what the intercom is configured for them to hear. In “ISO” mode, passengers will hear themselves and the co-pilot. In “ALL” mode, everyone will hear everything including radio, and in “CREW” mode the passengers will only hear themselves and not the aircraft radios. Furthermore, Bluetooth® connectivity enables pilots to have access to their Bluetooth-enabled telephones. This capability enables the pilot to contact ATC via a telephone while the engine(s) is running and the radios are tuned and set. The phone becomes a third transmitter for IFR clearances.

Slide-in Replacement

AeroPanel 100 has been certified and can easily be installed in any Part 23 class 1, II and III aircraft. The AeroPanel 100 is a slide-in replacement for some outdated, legacy audio systems (GMA™ 340). The shorter replacement time frame translates into lower aircraft downtime that decreases operational costs for fleet/charter operators and OEMs. It also means that as a user you get to fly and enjoy your brand-new audio system sooner.



Advanced features

The AeroPanel 100 offers several advanced features that make flying more enjoyable and informative for the pilot and passengers. For example:

- Music Distribution – unlike legacy audio panels that only allow everyone to listen to the same stream at any point in time, AeroPanel 100 offers three music distribution modes:
 - Standard Music Distribution (Music 1 via Bluetooth to crew while Music 2 to passengers)
 - Music 1 via Bluetooth for all headsets
 - Alternate music distribution (Music 1 via Bluetooth to everyone until intercom placed in CREW mode, then Music 2 is heard by the passengers)¹
- IntelliAudio® – this standard feature is one of the most advanced capabilities of AeroPanel 100. It enables manageability in listening to multiple radio calls that are occurring simultaneously. With Com 1 in the 10 o'clock position and Com 2 in the 2 o'clock position, pilots can prioritize to listen to the radio that they deem most important at any one instance of time. IntelliAudio® enables the pilot to pay attention to the radio that is important at any instant in time, making radio communications during busy workloads easier.
- Alternate Intercom Function – AeroPanel 100 can control the distribution of aircraft radio within the intercom. While in “Standard Intercom Function” mode, the audio panel’s intercom works like all other aircraft intercoms with the ISO, ALL, and CREW modes.
- Streamer Output – this capability allows wireless pairing to digital video cameras which enables seamless transmission of all the audio that the pilot hears. By using devices such as a digital video camera or iOS applications, all the audio from a flight can be stored for review at a later time.

Other Important Features:

- USB charging port – this port is rated at 10 watts and provides adequate power for iPads that are running the most demanding applications and, at the same time, charging the iPad battery.
- 6-Place Hi-Fi stereo IntelliAudio® intercom with Soft Mute™.
- Three music mute modes – Mute On, Mute Off, Radio Mute.
- Three Isolation modes – Pilot Isolate, All, and Crew and “Alternate Intercom Mode”.

¹ There is a DIP switch in the rear right of the chassis that allows music to be distributed but it has to be switched during installation. Once switched, then the music will work as “Alternate Music Distribution” only.

To enable this mode, simply hold the ICS button for three seconds and the “Alternate Intercom Function” sound will be heard. At this point, the passengers will not be able to listen to aircraft radios. However, they will still be able to converse with the crew. As the aircraft radio becomes active, the intercom audio from the passengers to the crew is muted, allowing the crew to focus on the radio. Nevertheless, the passengers will still be able to talk to each other. To revert this mode, pressing and holding the ICS button for three seconds again switches the intercom back to “Standard Intercom Function.”

- Continuous-loop Digital Recorder – AeroPanel 100 can record all radio transmission from a selected input. If a radio call is missed, the PLAY button plays back the last recorded message. Since the maximum duration of the recording is 40 seconds, the important message(s) can be played back quickly saving time for listening to important messages.

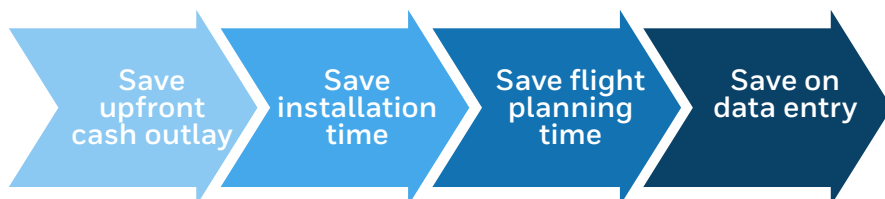


Choice of purchasing approach

BendixKing provides the opportunity for you to acquire the AeroPanel 100 with our Total Avionics Plan. This all-inclusive subscription plan makes the process of procuring and installing the avionics fast and easy. This plan requires no upfront capital investment and covers:

1. AeroPanel 100 installation
2. BendixKing Confidence Plan (a comprehensive warranty coverage)
3. Software updates
4. Substantially lower upfront cash outlay
5. Peace of mind that the product is completely covered with an iron-clad warranty while you use the plan

Most of all, you will be using a product that makes it easy for you to plan your flight path and fly with confidence.



Technical Specifications

Approved Basis	FAA TSO C35d, c50c EASA ETSO C50G C35d
Certification Documents	RTCND0-214 RTCND0.143 RTCAJ DO-160D RTCAJDO-178B DO-254 6-place Stereo
Transmitter Selections	2 selections (Com 1, Com 2)
Receiver Inputs	5 inputs (Nav 1, Nav 2, MKR, AUX/DME*) DME is switched with AUX input
Marker Beacon	Internal
Un-switched Inputs	4
Power Requirements	11 to 33VDC, 2.5 Amp
Output - Power	
- Speaker	3 Watts (14V), 10 Watts (28 Volts)
- Headphones	38 mW each headset, no clipping <1% distortion typical
Audio Frequency Response	±3 db, 300 Hz-6000 Hz
Entertainment Frequency Response	±3 db, 20 Hz 18 kHz
Weight	1.85 lb.
Dimensions (HxWxD)	1.3 in. (3.3 cm) x 6.25 in. (16.9 cm) x 7.15 in. (18.16 cm)
Environmental Qualification	RTCA DO-160D, AI DI CABSMXXXXXZBABATBXXQXXX
Temperature Range	-150 C to 550C
Altitude	50,000 feet unpressurized
Marker Receiver	75 MHz, Crystal Controlled
External Marker Outputs	Lights and MM sense output

Find out more

For a list of certified aircraft, please call us at 1.855.250.7027 or call your authorized BendixKing dealer or visit bendixking.com

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