

ALTO

AVIATION

Audio designed with your aircraft in mind™

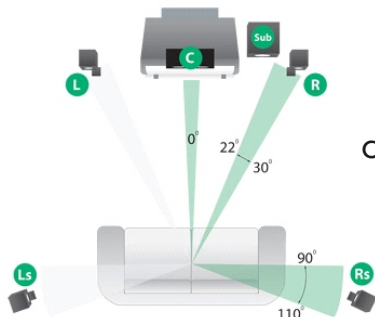
nVELOP

Surround Sound

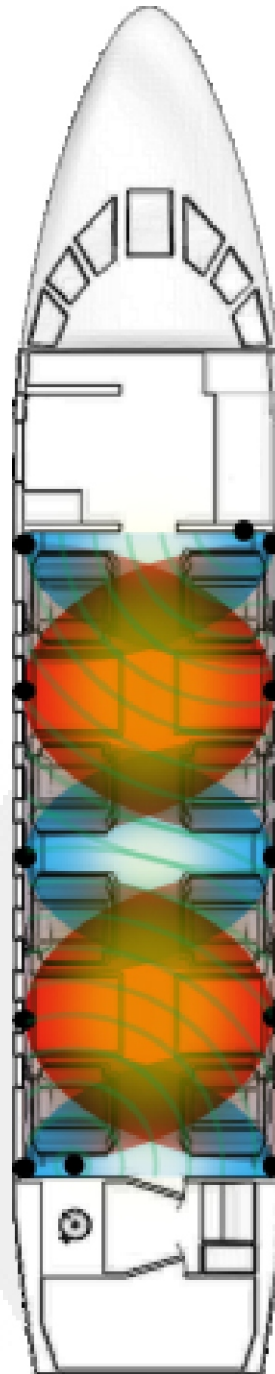
The nVELOP Surround Sound System from Alto Aviation brings the home theater experience to the aircraft cabin. Alto has done extensive research in the area of surround sound decoding in the aircraft cabin. Conventional home type surround decoder systems are not optimal for the aircraft cabin. They are designed for a large living room where the seats are centered amongst the speakers which can't be done in the aircraft. Use of conventional type surround decoding in the cabin results in severe compromises for most of the passengers. Alto has created its nVELOP™ CabinWide Surround using proprietary surround decoding techniques to provide true surround sound for all of the cabins passengers. This processor has been designed exclusively with the challenges of the aircraft cabin in mind. In addition to providing the theater feel for videos, the decoding used will also enhance music recordings as well. There is no switching needed to go from CDs to DVDs.

Conventional Home Surround nVELOP CabinWide Surround

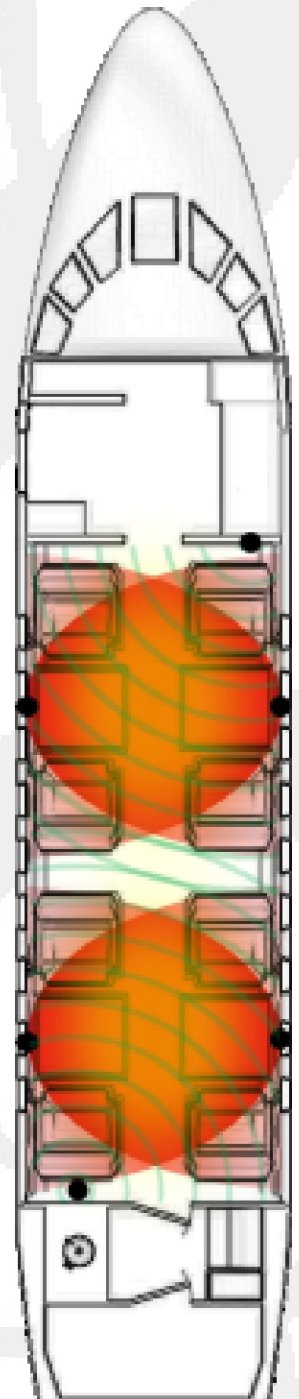
- Relies on seating centered amongst the speakers
- All seats face same direction
- Monitor is in center of seats
- Designed for large room with high ceilings
- Listening is severely compromised in all cabin seats except VIP
- Designed specifically for aircraft cabins
- Proprietary surround decoding process
- Takes into account off-center monitors and seating
- Frontal sound imaging w/ rear surround for fwd and aft facing seats
- Easy upgrade from Alto standard audio system



Conventional surround for home use compromises quality in the aircraft cabin



Audio coverage with nVELOP cabinwide surround for all seats



Audio coverage with standard audio system