

***New and improved! Experience the unmatched versatility of 3D AARO - the world's only controllable, binaural in-ear system.***

The 3D Active Ambient IEM System (US Patent #8,160,261) has been redefining in-ear monitoring since 2006. By combining all the benefits of in-ear and open ear monitoring, musicians can hear exactly what they want – *with both earphones in place.*

### **Introducing 3D AARO The next generation of Active Ambient technology!**

Sensaphonics has engineered significant upgrades into the 3D AARO (Active Ambient, Record Out) system as standard equipment, expanding the value and versatility of 3D Active Ambient technology.

- Record Out jack – A stereo output jack sends the binaural audio from the ambient microphones to another device.
- Bass Boost switch – Adds +10 dB of bass response. Great for DJs, bassists, and drummers!
- Quadaxial earphone cable – Industry-first 4-conductor cable for easy field replacement.

What does Active Ambient mean?

To give musicians access to on-stage sounds while wearing in-ear monitors, we embed tiny, precision-equalized microphones into custom soft silicone earphones. This binaural mic system captures full-range sound with precise directionality – left/right, back/front, and up/down, with patented circuitry for distortion-free ambient pickup. The ambient audio is combined with the monitor feed in the 3D bodypack mixer, with zero latency and total control of the mix. This allows the user to monitor at lower, safer levels while still hearing everything with perfect clarity. The result is a three-dimensional monitoring experience.

That's why we call it 3D.

### **Other Systems**

**Model 3D-HW** - A hardwired version of the 3D with dual XLR inputs and external monitor level knob. (Note: does not include Record Out or Bass Boost.)

**Model 3D-CROS** - For musicians with unilateral hearing loss, the CROS routes both ambience and monitor mix to the good ear. Unique technology, only from The Experts in Safe Sound™.



### **3D AARO Components**

#### **3D-RO Mixer/Amplifier**

This compact bodypack uses a standard stereo mini-jack input for easy connection to the monitor system – typically a wireless IEM receiver or other headphone level output device (DJ mixer, computer, etc.). Powered by 9V battery.

#### **3D-2q or 3D-1q Ambient Earphones**

Full-range drivers, exclusive to Sensaphonics, deliver studio reference audio quality, drawing their power from the 3D bodypack instead of the IEM receiver. The road-rugged cable features our industry-first quadaxial connectors for easy field replacement. Our signature soft silicone earpieces assure exceptional fit and comfort. Available in clear or optional Crystal Colors.

### 3D AARO Versatility

The 3D AARO is designed for musicians on stage. But with its isolating custom earphones, ambient binaural microphones, and expanded bodypack features, the 3D Active Ambient has proven to be a superb tool across a wide range of pro audio applications..

### Stage Monitor with Ambience

An exceptional in-ear monitor with access to, and full control of, ambient stage sound. The 3D user can hear the other band members acoustically, as part of the monitor mix, even with both earpieces in place. Great for monitor engineer communication, too.

### Studio Sessions

Instead of wearing headphones with one muff off or partially open, the 3D allows studio musicians to dial in as much (or as little) room sound as is needed to hear the other musicians acoustically, with zero latency, thus enhancing their own performance.

### DJ Monitoring

The 3D AARO allows DJs to hear both their cue and house mixes, and take audience requests, while eliminating bulky headphones. Superb isolation and comfort reduces ear fatigue and allows safer monitoring levels during long, loud sets, with Bass Boost switch for +10 dB low frequency response.

### FOH Mixing

Mixing while wearing the 3D Active Ambient allows the FOH engineer to hear the room accurately while listening at levels up to 24 dB lower. Check on the full-volume sound at the flip of a switch while minimizing ear fatigue. In addition, the direct input can be used to preview cues and effects from the console.

### Live Recording

By connecting a digital recorder to the Record Out jack on the 3D AARO, the user can capture the ambient sound from the binaural microphones, exactly as it was heard – including accurate directional imaging. Great for field recording, live performance capture, archiving, and surround audio.

### Variable-Level Earplugs

With the ability to “turn down the room” in 4 dB increments – all the way to Off – and Full Ambient mode for normal conversation, the 3D Active Ambient is also the ultimate custom earplug. Great on airplanes!

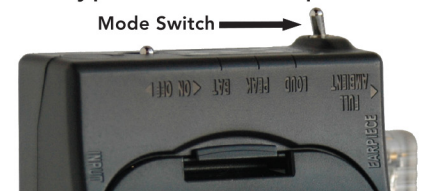


### How It Works

The 3D offers two operating modes, easily accessed with the two-position toggle switch on the top panel of the bodypack mixer-amplifier.



Ambient Mic



Mode Switch

**Perform Mode** – Typically employed while playing, Perform mode allows the user to add ambient sound to the IEM mix at any level from “off” to “full” (unity gain). The ambience level is adjustable in 4 dB increments.

**Full Ambient Mode** – In this mode, sound from the embedded microphones is heard at full natural volume (unity gain) – just as it would be without earphones – while the IEM mix is dynamically reduced. Full Ambient mode is generally used to communicate between songs – and hear the roar of the crowd.

**ONLY FROM SENSAPHONICS -  
THE EXPERTS IN SAFE SOUND™!**

# Sensaphonics

Hearing Conservation

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