

THE LANTOS MEMBRANE

The technology behind the incredibly fast, accurate, and comfortable 3D ear scanning system for custom-fit hearing products.

ENHANCE SAFETY

Eliminate risk of material blow by and other complications related to earmold impressions (EMI)



IMPROVE PATIENT COMFORT

9 out of 10 patients prefer scanning to EMI



SCANNING MADE SIMPLE

A single scan mode maps from the concha down to within 4 mm of the eardrum



OPTIMIZE THE EAR FOR SCANNING

The membrane makes scanning easy, regardless of hair, wax, skin tone, or ambient lighting



NO CALIBRATION REQUIRED

Scan without the need for depth calibration or self-testing



CLEAR VISUALIZATION

See the ear canal in real time for safe membrane placement

FDA 510(K) cleared

“ The Lantos membrane serves as a proxy for a device in the ear. ”

- DR. LYDIA GREGORET

Director of Translational Research, Lantos Technologies

Each single-use membrane is made from a soft, stretchy thermoplastic elastomer (TPE), which is nontoxic, hypoallergenic and biocompatible. The interior of the membrane is lined with little black specks called fiducial markers. These markers enable a series of still pictures to be stitched together in real time in order to create an ultra-detailed 3D rendering of the ear.

INCREDIBLY **FAST**, **ACCURATE**, AND **COMFORTABLE** 3D EAR SCANNING



1 INSERT DEFLATED MEMBRANE

Once loaded onto the Lantos Scanner, the membrane is guided down the ear canal and placed within 4 mm of the eardrum to initiate the scan process.



2 INFLATE MEMBRANE

The membrane quickly and safely fills with a water-based solution, conforming to the ear's unique contours and capturing natural compliance to ensure optimal device fit.



3 BEGIN SCANNING

The inflated membrane provides a uniform surface and controlled environment that, unlike the natural surface of the ear, is ideal for scanning.

4 DEFLATE AND REMOVE MEMBRANE

After safely and efficiently capturing over 1 million data points per ear in less than 60 seconds, the membrane is deflated and removed. The resulting digital image file is uploaded to the cloud, where it can be used to make endless custom-fit hearing products.

