

# A game changer in margin visualization

- + Provides real-time insight on margin status
- + Delivers 10X the resolution of X-ray and ultrasound
- + Visualizes margins at the cellular level



S-Series OCT

# The Quest for Clean Margins

Surgeons have long recognized the challenge of achieving clean margins while preserving healthy tissue during surgery. Traditional intraoperative imaging does not have the resolution to see cellular-level disease. And it is several days or weeks before pathology reports on margin status are available. If pathology shows positive margins, patients must typically return for another procedure.

## The Full Impact of Re-excisions

Positive surgical margins leading to re-excision or recurrence can impact patients physically, emotionally and financially.

- + Adds unnecessary costs
- + Lowers patient satisfaction
- + Increases complications
- + Delays adjunct treatments

## The Power to See More

Until now, surgeons have not had the imaging tools to confidently assess margin status when they need it most – at the point of care.

The Perimeter S-Series OCT provides high-definition 3D imagery of margins during surgery, giving surgeons clarity to make informed decisions in real time before closing.



Provides  
real-time insight  
on margin status

Delivers 10X the  
resolution of X-ray  
and ultrasound

Optimized for  
visualizing margins at  
a microscopic level

Allows physicians  
to take targeted  
cavity shaves



“This technology can alleviate a surgeon's uncertainty on margins and help address the possibility that they have to call a patient back for a second operation.” - Amelia Tower, DO, FACOS



Watch video

# The OCT Difference

Optical Coherence Tomography (OCT) technology may be new to the field of surgical specimen imaging, but has been widely used in clinical settings since the 1990s. From ophthalmology to interventional cardiology and dermatology, clinicians rely on OCT's ultra-high-resolution imaging power to view microscopic subsurface tissues and help them make more informed clinical decisions. Now, Perimeter is revolutionizing the field of specimen imaging by bringing its OCT technology to the operating room.



## High-Resolution OCT

Non-invasive, optical imaging technology uses light to visualize suspicious microstructures and features like blood vessels, ducts, and glands.



## Margin Visualization

Resolution is optimized for visualizing microscopic tissue structures down to 2mm, ideal for reviewing surgical margins.



## No Patient Contact

Tissue is preserved for pathology and device does not touch the patient, enter the sterile field, or require radiation.



## Orientation Labeling

Label and capture images of surgical margins on all six planes to convey accurate orientation for pathology.



## Advanced Software

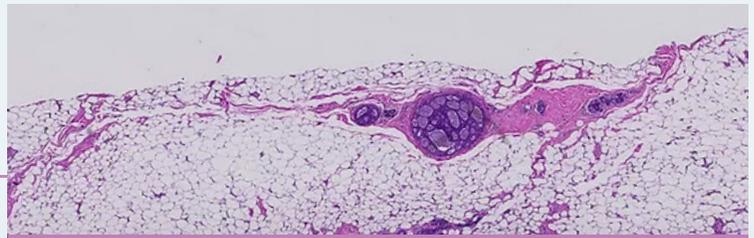
Intuitive interfaces speeds image review to identify and annotate regions of interest, optimizing clinical decision making.

## Seamlessly Integrates Into Your Workflow



2-7 days

Current Standard  
of Care

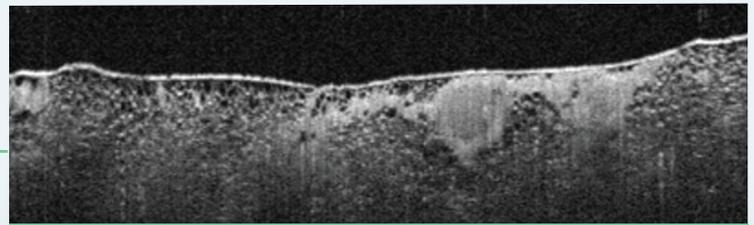


Pathology: Gold standard for confirming margin status



10-15 minutes

With Perimeter  
S-Series OCT



OCT: Real-time clarity in the OR prior to pathology assessment



“In the OR, Perimeter’s technology provides ultra-high-resolution visualization of my specimen in real time. This adds to my confidence on the final margin status.” - Beth DuPree, MD, FACS, ABOIM



Watch video

# Advancing Patient Care

Healthcare is undergoing an industry-wide, seismic shift in the transition to value-based care models – centering on patient outcomes and improving quality of care. To truly advance patient care, it is crucial surgeons have access to the latest advanced tools and technologies. Having the Perimeter S-Series in the OR equips surgeons with the information they need to determine margin status at the point of care, allowing them to personalize treatment and tailor care to each patient.



“I’m grateful to have a technology available to me that could help shorten this journey and get me on the road to recovery.” - Nadia, Patient

## Driven by Innovation

Perimeter Medical Imaging AI, Inc. is a medical technology company driven to transform cancer surgery with ultra-high-resolution, real-time, advanced imaging tools that address unmet medical needs. Based in Toronto, with U.S. headquarters in Dallas, Texas, Perimeter aims to harness the power of big data, artificial intelligence, and machine learning technology to further its mission of improving the standard of care, providing better long-term outcomes for patients, and reducing healthcare costs.

Perimeter envisions a world where patients no longer experience the emotional and physical trauma of a second operation due to cancer left behind.

## Next-Generation Technology with AI

Perimeter's technology has been in clinical development since 2012. Based on its flagship S-Series, which was FDA cleared and launched into the U.S. market in 2021, Perimeter has a randomized, controlled, multi-site, pivotal study underway for the next-generation device using artificial intelligence. The study is evaluating the investigational B-Series OCT with ImgAssist AI<sup>1,2</sup> against the current standard of care and assessing the impact on re-operation rates for patients undergoing breast-conserving surgery. This initiative is made possible, in part, by a \$7.4 million grant awarded by Cancer Prevention and Research Institute of Texas (CPRIT).

1. Perimeter received U.S. FDA Breakthrough Device Designation for its Optical Coherence Tomography (OCT) Imaging System with ImgAssist AI on April 15, 2021.
2. Perimeter B-Series OCT is not available for sale in the United States. CAUTION - Investigational device. Limited by U.S. law to investigational use.



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