

Why the LOCalizer™ system may be the right choice for you.



About Hologic

Hologic empowers people to live healthier lives everywhere, every day.

We achieve this by bringing **The Science of Sure®** to life. The Science of Sure reflects who we are as a leading innovator in women's health, helping healthcare professionals around the world diagnose and treat their patients with precision, certainty and confidence.

With groundbreaking technology at the core, our innovations are designed to achieve exceptional clinical results, making it possible to detect, diagnose and treat illnesses and other health conditions earlier and more effectively.



Convenient scheduling

Your doctor can schedule for the RFID Tag to be implanted into the breast anytime prior to surgery.

Immediate confirmation

The surgeon can confirm the removal of the precise Tag during surgery using the Tag's unique ID.

The path towards better outcomes

The LOCalizer™ system may potentially reduce the chances of further surgery.

Guide to your
**LOCalizer™ wire-free
guidance system**
procedure

Please contact your medical professional for specific advice regarding your health and treatment.

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LOCalizer™
Wire-free Guidance System

A guide to breast surgeries

How the LOCalizer™ system works

What to expect with the LOCalizer™ system

Due to imaging and screening advancements, breast cancer is often caught at earlier stages. However, early detection means that lesions are typically smaller and therefore harder to locate during surgery. Studies have shown that about 50% of all lesions are “non-palpable”, which means your surgeon cannot find them by touch alone.^{1,2}

Traditional breast lesion localization methods can involve using surgical wires, radioactive seeds or magnetic tags as markers. These techniques may potentially have disadvantages for doctors and patients alike. Often involving inconvenience and multiple procedures on the same day, these procedures can possibly lead to unnecessary stress and anxiety.

Now there is a new way for your breast care team to find small breast lesions using the LOCalizer™, which is a wire-free radio frequency identification (RFID) system that potentially improves precision guidance for the surgeon.

1. Clefken B, Postelmans J, Damink SO, et al. Breast-conserving therapy for palpable and non-palpable breast cancer: can surgical residents do the job irrespective of experience? *World J Surg.* 2007; 31(9):1731-6.

2. Mathis KL, Hoskin TL, Boughey JC, et al. Palpable presentation of breast cancer persists in the era of screening mammography. *J Am Coll Surg.* 2010 Mar;210(3):314-8. doi: 10.1016/j.jamcollsurg.2009.12.003.



Introducing LOCalizer™, the wireless breast lesion localization system from Hologic.

The LOCalizer™ system is a wireless radio frequency identification (RFID) breast lesion localization system that potentially enables precision and ease of use for breast surgery guidance.

The LOCalizer™ system features:

- **Advanced Miniature RFID Tag** designed to be implanted into the breast anytime prior to surgery.
- **Real-Time Distance Measurement** reports distance measurement to the Tag.
- **Pencil-sized single-use Surgical Probe** guides the surgeon towards the Tag during the operation.
- **Visible RFID Tag** can be placed under and is visible by ultrasound and x-ray.

How does the Tag placement work?

The miniature radio-frequency tag is introduced into the centre of the breast lesion using the LOCalizer™ system. The Tag is designed to be implanted into the breast anytime prior to surgery. Each Tag has a unique identification number and is implanted by a radiologist via a needle under either Ultrasound or X-Ray control. Your doctor will use the LOCalizer™ reader to confirm that the Tag is correctly positioned. This information may help your surgeon plan the surgical path and removal of the lesion. Once the Tag has been implanted you can return home and resume normal activity.

What happens during surgery?

Your surgeon will determine the location of the Tag with the LOCalizer™ system reader and probe. The handheld reader will display the distance from the Tag throughout the surgery. By measuring the distance to the target lesion, the LOCalizer™ system facilitates accurate surgical excision.

Once the lesion has been removed, your surgeon will use LOCalizer™ system probe and reader to confirm that the Tag has been taken out with the tissue.