xeos AURA

PET-CT
Specimen Imager

Precisely where it matters

Instant surgical confidence

In surgical oncology, such as breast conserving surgery, rapid verification of the excised specimen is of utmost importance. A clear view on the surgical margins of the breast tissue is therefore critical. You want to be confident that resurgery for your patients can be avoided, so that their recovery can be promoted.

With the AURA 10 PET-CT Imager, you can:

- **Visualize radiotracer uptake in specimens with submillimeter spatial resolution**
- **Obtain imaging results within 10 minutes after excision**
- **Seamlessly integrate a compact and mobile PET-CT imager in your OR**

The first PET-CT specimen imager for the OR

Molecular imaging has been the gold standard in oncology for years. Whole-body PET-CT scanners have proven to be invaluable for the diagnosis and follow up of cancers, because they provide **unparalleled sensitivity for the detection and localization of malignant cells.**

Imagine you could obtain this level of precision within 10 minutes after excision, right at the point of surgery, without having to transport your specimen over to the radiology department. Imagine how this could boost your surgical confidence and improve the wellbeing of your patients. The XEOS **AURA 10** is the first-ever PET-CT Specimen Imager for the OR, offering surgeons and imaging specialists the sensitivity of PET imaging, combined with submillimeter spatial resolution.

Transforming surgical oncology

With the **AURA 10** PET-CT Imager, XEOS is transforming mobile specimen radiography, allowing you to operate with more clarity. **AURA 10** brings increased precision to the OR by integrating 3D PET molecular imaging and high-resolution X-ray CT capabilities into a compact and ergonomic cart-based system. This makes it possible for the first time to obtain reference image quality in your procedure room within minutes after excision.

Smarter workflow, better results

The AURA 10 is the imaging technology surgeons and imaging experts have been waiting for. Now it's available for the OR at a fraction of the cost of a conventional, large-scale PET-CT scanner. The benefits the AURA 10 brings, make this technology a must-have for every medical facility that is serious about surgical oncology.

Save procedure time

Transporting your specimen to the radiology department and receiving diagnostic results takes time. Meanwhile, you need to wait and lose valuable minutes before closing your patient with more confidence. With the **AURA 10** specimen imager, there is no transport required. Just **obtain reference image quality at the point of surgery and upload the images to your PACS,** so your imaging specialist can view them right away. This saves valuable procedure time.

See more of what matters with more clarity

2D images obtained with conventional specimen radiography are valuable, but the limited sensitivity of this technology still makes it hard to accurately localize tumor cells in the specimen. The **AURA 10** offers more clarity and confidence, because it provides high-precision 3D data that allows you and your imaging experts to visualize samples inside the OR with more certainty. The **AURA 10** clearly highlights the radiotracer uptake of the tissue and indicates its location, shape, size and extent inside the harvested specimen.

Integrate seamlessly into your OR

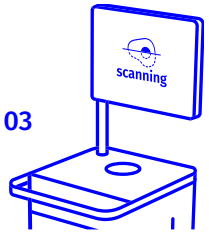
The compact **AURA 10** imager has a high-quality finish and will seamlessly integrate into your OR environment. It's very mobile, so you are free to give it the most suited place in your procedure room or to share it with other surgical oncologists. The **AURA 10** starts up in less than 10 minutes and the solid shielding of the x-ray source will offer your surgical staff the highest protection during use.

The AURA 10 PET-CT Specimen Imager offers:

- **Unparalleled image quality directly obtained in the OR**
- **Imaging results within 10 minutes**
- **Fast upload to PACS for instant interpretation**
- **A compact, mobile and ergonomic unit**
- **A user-friendly image viewer**

Intraoperative high-resolution
PET-CT Workflow

Step **01** → Step **02** → Step **03** → Step **04**

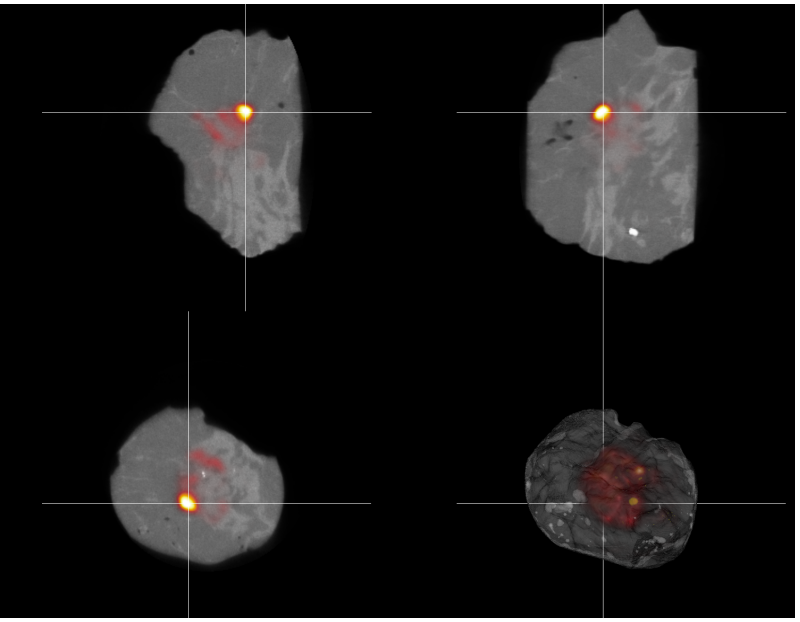


Low-dose radiotracer injection

Resective surgery procedure

Intraoperative specimen PET-CT imaging

Immediate visualization of resected specimen



Powerful medical imaging processing

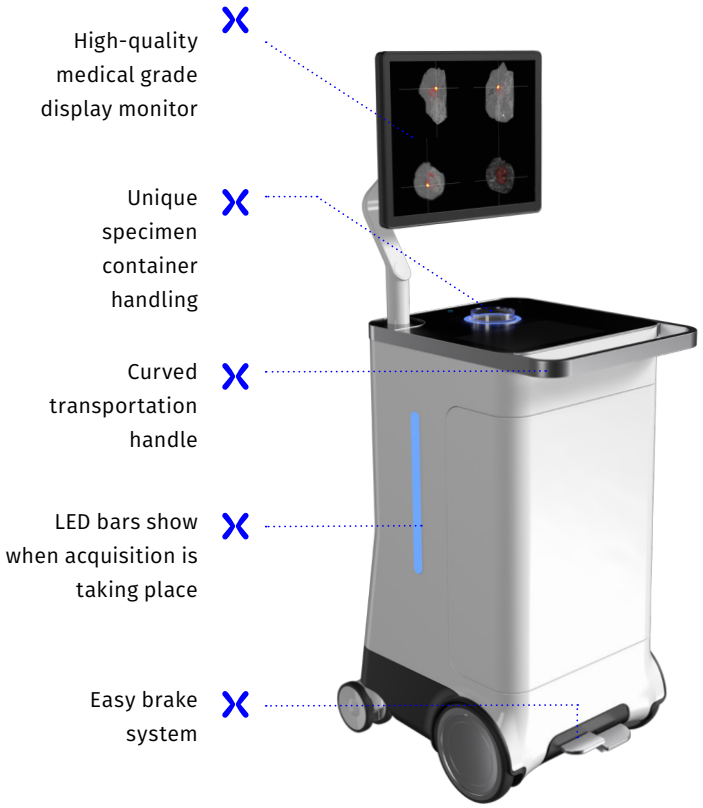
Once acquired, you want your PET-CT images to be reconstructed and visualized fast and accurately. With the **Aura Flow** visualization and reconstruction engine, your clip verification images are available within 30 seconds, and the reconstructed high-resolution CT after only 3 minutes. Metal artifact correction avoids any image disturbance due to clips in the CT image. Your PET images are available within 10 minutes after data acquisition.

Aura Flow allows you to zoom in on your co-registered PET and CT images and to make annotations. You can also measure, scroll through slices, rotate the image, adapt the window level, and much more. The DICOM interface assures data compatibility.

AURA FLOW

Small format, big difference

The AURA 10 provides reliable imaging results time and again, and has been designed for your staff's optimal user comfort and viewing ergonomics.



Compact unit

The **AURA 10** offers high-performance PET-CT molecular imaging capabilities, all engineered into the smallest, most practical form factor. It's highly mobile for use in and out of your operating room, and while offering a similar level of precision, it only comes **at the fraction of the cost of a conventional, large-scale PET-CT scanner.**

Ergonomic design

The **AURA 10** is easy and intuitive and allows you to fully focus on your patient. Your surgical staff will appreciate the unit's compact design, curved transportation handle, easy brake system, and motorized top-load specimen receptacle. The medical-grade display monitor can be tilted and swiveled to give you more viewing comfort.

Safe for your staff

An LED ring around the top-load specimen receptacle will indicate proper tray insertion, specimen position and closure. A vertical LED bar on both sides of the unit shows when the x-ray acquisition is taking place and informs you about the progress of the image acquisition. The x-ray source is appropriately shielded, which avoids exposure to the surgical staff. The PET scanner only requires a minimal radiotracer marker dose, and fully complies to Radiation Protection & Safety of Radiation Sources standards.

Practical interface

The integrated touch-control display and trackpad enable you to instantly set up the image acquisition and obtain the required views with little image manipulation. Uploading the images to your PACS is easy and fast. **The intuitive user interface enables you to simply link the acquired images to the patient and procedure data within the PACS system.**

Extend your PET-CT imaging services to the OR

With the AURA 10 imager, the surgical team can perform high-precision imaging intraoperatively.

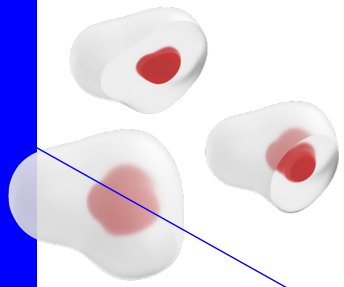
With the AURA 10, PET-CT imaging results are obtained within 10 minutes after excision.

The imaging choice of oncology experts

PET-CT has long been recognized for its benefits in cancer imaging. With the **AURA 10** specimen imager from XEOS, micro-PET-CT imaging capabilities are now available at the point of surgery, allowing surgical and imaging professionals to visualize cancer cells and micro-calcifications from the resected tissue with picomolar sensitivity and clarity.

Instant review via PACS

Surgical staff relies on the expertise of the radiologist or nuclear medicine physician. The interpretation of these experts is critical to support the surgeon's judgement on whether the targeted tissue has been resected or not. **AURA 10** allows imaging experts to speed up that interpretation.



Following the specimen acquisition by the **AURA 10**, surgical staff can upload the PET-CT images to the hospital's PACS. This way, radiologists or nuclear medicine physicians can review the images within their own familiar viewer environment, which includes all advanced tools, as well as all the patient's prior imaging results.

Better planning, less interruptions

Radiologists and nuclear medicine physicians need to process an ever-increasing volume of medical images. Specimen imaging requests from the OR to the medical imaging department are not only highly unpredictable, but when images arrive, they also need to be diagnosed instantly. This high workload and unpredictability are serious stress factors.

With the **AURA 10** imager, the surgical team can perform high-precision imaging intraoperatively. This allows for better planning with the radiology department, **which reduces needless workflow interruptions.**

Give your patients your best work

AURA 10 has made molecular imaging available in the OR for the first time. As a result, surgeons and imaging specialists have never been able to perform specimen imaging with so much confidence. Ultimately, your patients will be the ones who benefit.

Less chance of resurgery

The **AURA 10** combines the picomolar sensitivity of PET with high-precision 3D image reconstruction. This gives you all the capabilities you need to image the targeted tissue in a single procedure, to close your patient with more confidence, and to potentially reduce the probability of resurgery.

More peace of mind for your patients

Using the best available intraoperative imaging technology will significantly decrease the anxiety level of the patient. This stress reduction will contribute to your patient's recovery.

Reduced anesthesia time

A more streamlined workflow and real-time collaboration with your radiology and nuclear medicine department can shorten the procedure. This may also reduce anesthesia time for your patient and decrease the risk of postoperative complications.

Better cosmetic outcome

Intraoperative imaging can help you to remove less tissue in the initial surgery and to obtain a better cosmetic result.

Close your patient with more confidence, and potentially reduce the probability of resurgery.

xeos

Precisely where it matters

We are focused on improving outcomes in surgical oncology through innovations in intraoperative imaging. Our goal is to eliminate the risk of resurgery through smarter specimen imaging.

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