

For animal testing

Photoacoustic 3D imaging system

Non-invasive Non-contrast Blood vessel imaging

Photoacoustic 3D imaging system

for animal testing scheduled to go to market this fall

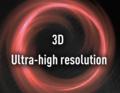
Luxonus Inc.'s "photoacoustic 3D imaging system for animal testing" uses photoacoustic imaging technology that combines light and ultrasound waves to enable the safe and convenient capture of ultra-high resolution 3D images without exposure to radiation





Non-contrast No exposure to radiation

Utilizes near-infrared light for safety **Enables repeated measurements**



Enables 3D images of 0.1mm resolution Helpful in various types of research such as on intraorgan blood vessels and tumor-related blood vessels

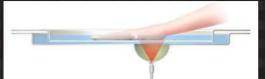


From mice to rats to humans, various types of samples can be imaged Real-time monitoring while taking still images **Equipped with video-imaging function**



Image-capturing modes

Can switch between still shot mode and video mode. As long as it's on the image-capturing tray, any sample can be imaged.

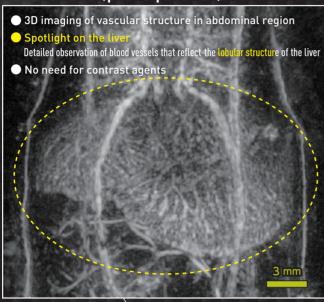


Still Mode
lmage dimensions
Max. 180mm x 290mm
Image capture duration
Up to 6 minutes depending on size

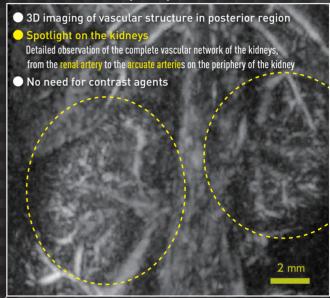
Video Mode
lmage dimensions
22mm diameter range
Frame rate
Up to 30 MHz

Photoacoustic 3D Imaging Technology (PAI) is paving the way toward a new world of imaging

Nude mouse (prone position)



Nude mouse (supine position)



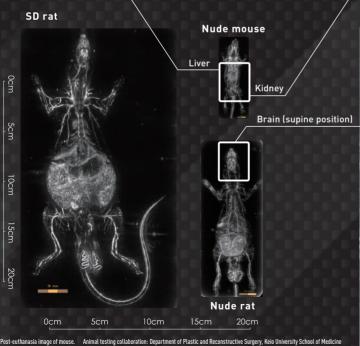


Image of cerebrovascular structure taken through the skull



A startup company out of Keio University and Kyoto University focused on bringing cutting-edge diagnostic imaging technology to real-world laboratories.



