Breast Solutions with LOGIQ[™] E10 Series





LOGIQ[™] E10 Series along the care pathway



Auto-optimized images cSound Imageformer delivers a focus by pixel combined to Speed of Sound

Choice of high-performance probes Select from E-Series and XDclear[™] probes, including high-frequency and matrix probes designed for breast applications.

- ML6-15-D (matrix probe)
- L2-9-D (XDclear[™] probe)
- L8-18i-D (high frequency probe)

DICOM SR/linked image Structured reporting formats feature embedded measurements and link directly to ultrasound images to add efficiency and precision to workflow.

Auto Lesion Segmentation This AI-based productivity tool automatically traces lesion boundaries and generates two-dimensional measurements with just a few keystrokes.

Raw Data Expanded capabilities enable users to apply a wide variety of image processing and quantification after the exam and while using Compare Assistant. This allows the operator to extract and reanalyze information without extending exam time **Microvascular Imaging (MVI)** High-definition flow mode helps clinicians identify tiny vessels in lesions and lymph nodes.

2D Shear Wave Elastography Enables non-invasive assessment of lesion stiffness in breast with a Shear Wave Elastography Quality Indicator to support confident measurements. Strain elastography is also available for semiquantitative tissue assessment.

B-Steer+ enables enhanced visualization of the needles structure during interventional procedures, helping improve user confidence. (biopsy procedure)

Breast Productivity Package Enhances speed and standardization in lesion reporting by automating the labeling, measuring, and description of breast lesions, integrating the BI-RADS[®] lexicon to enhance structured reporting, auto-populating exam findings to organize data in a standardized format and Creating a summary report

Contrast-Enhanced Ultrasound Get a clear picture of tissue structure and suspicious mass vascularity by optimizing the balance between penetration and resolution for improved contrast sensitivity.

Volume Navigation with Fusion Imaging Merge real-time ultrasound with a volume DICOM[®] MR dataset to facilitate second-look examinations and fusion guidance of biopsies of masses seen on MRI but not on ultrasound.

One click Query/Retrieve Query Retrieve puts an end to running back and forth to view previously acquired PET, MR, CT, mammography or ultrasound images.

Compare Assistant Enables clinicians to easily view a prior study – ultrasound, mammography, CT or MR – and compare with current images in real time via a split screen on the monitor, helping to improve confidence and exam efficiency.

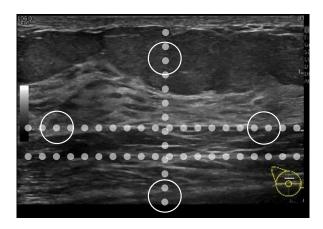


LOGIQ[™] E10 Series – 2D Imaging Quality

ST-97IN

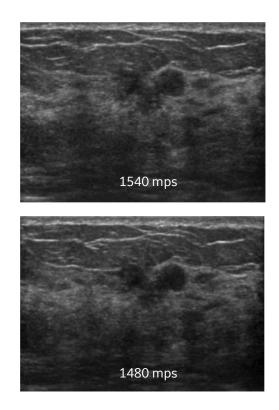
cSound[™] Imageformer

Each pixel is focused High spatial resolution along the image Better temporal resolution during live scanning



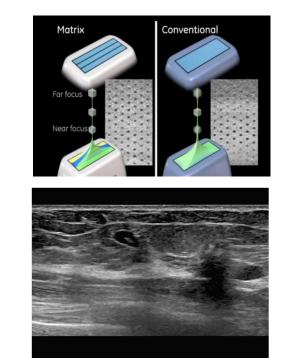
Speed of Sound

The system can adjust speed of sound with the goal to improve resolution through more precise focusing



Matrix Technology

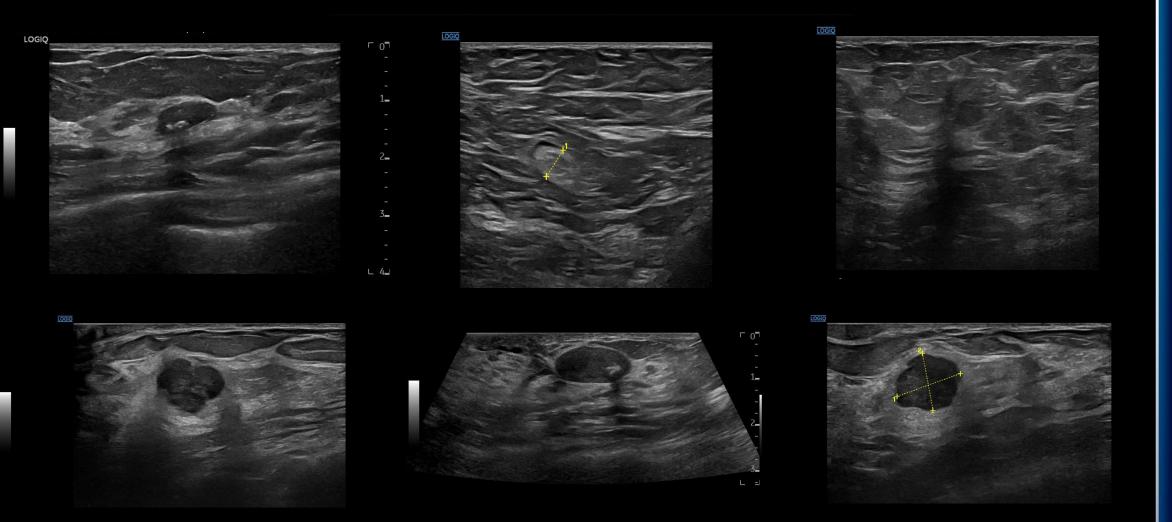
Higher resolution into the elevation plan Better Homogeneity for dense breast





Screening

LOGIQ[™] E10 Series – 2D Imaging Quality

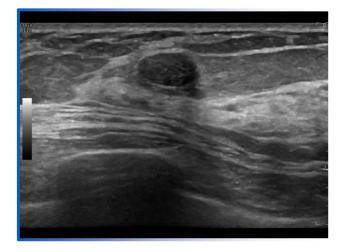




Auto Lesion Segmentation

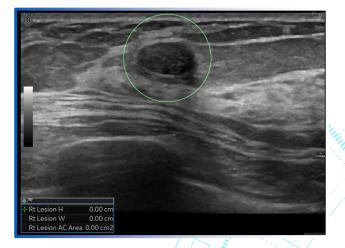
Harnessing the power of AI

User identifies a breast, thyroid or liver lesion



Benefit: Users scan as they normally would

User clicks on the lesion and simply expands a graphical circle to encompass it



Benefit: User identifies a lesion with a z single click

The algorithm segments the lesion, providing a trace and extents of the lesion

Screening

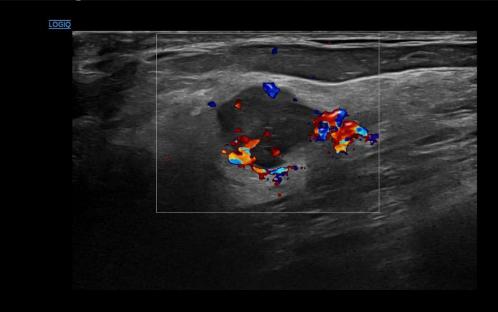


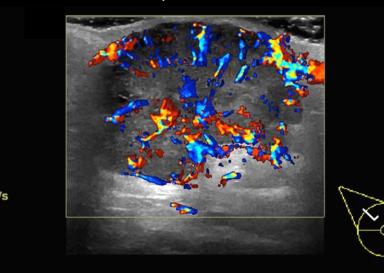
Benefit: Calipers are automatically placed to measure the lesion, saving keystrokes and providing consistency

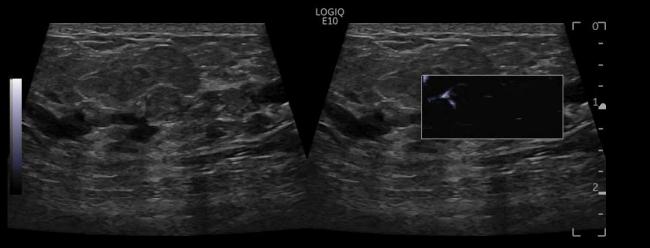
Manual view classification



LOGIQ[™] E10 Series – Flow Modes Quality











Elastography Assess the tissue stiffness

2D Shear Wave elastography technique (visual and quantitative information in a color coded box)

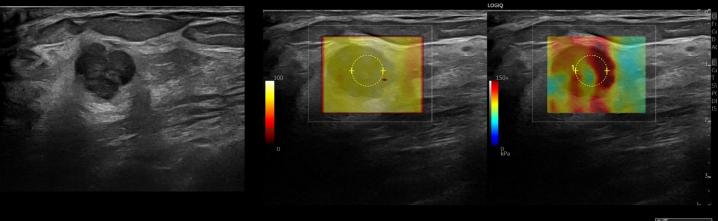
- User selectable color maps
- Now with Quality Indicator
- Adjustable Color Box and ROI depth and size
- Multiple measurements within a single shear wave image
- Auto sequencing feature for an automatic placement of measurement ROI within image
- Dual or Single display option
- Measurements in kPa or m/s or both
- Mean, Median, IQR and STD display for multiple measurements
- Fast acquisition time to reduce motion artifacts
- Penetration mode for technically challenging cases
- Summary worksheet
- Supporting GE Raw Data
- Measurements can be done on acquired clips after the exam is ended
- Working in combination with Volume Navigation and Needle Tracking
- -Comprehensive tool for liver disease management



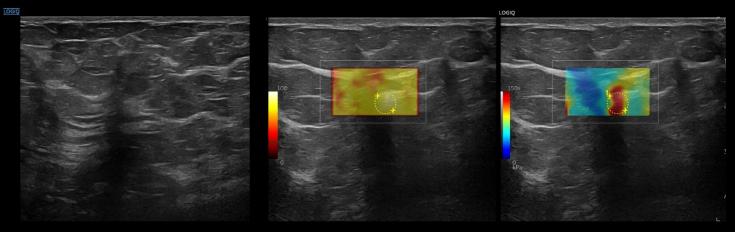




LOGIQ[™] E10 Series – 2D Shear Wave Elastography



● [≪] 1 E 104.81 kPa



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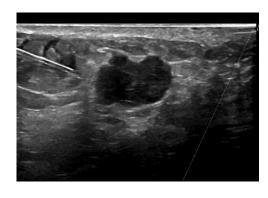
B-Steer+

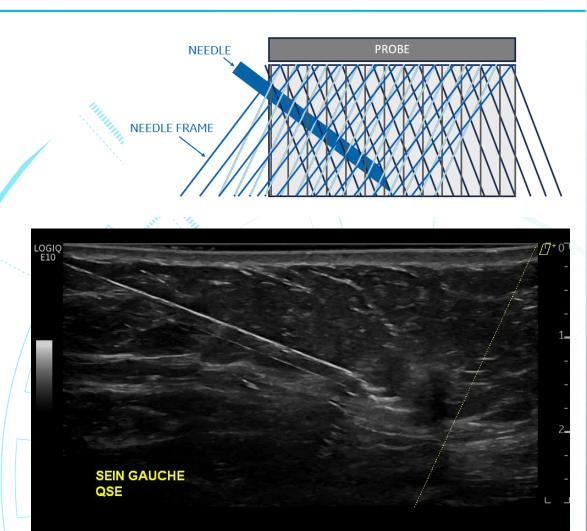
Enhance your needle visualization during biopsy

B-Steer+ feature enables enhanced visualization of the needles structure during interventional procedures, helping improve user confidence.

Highlights

- Up to 12 selectable steering angles available (six each direction)
- Separate gain control for needle refleciton
- Available on all linear transducers
- Quick one-button operation







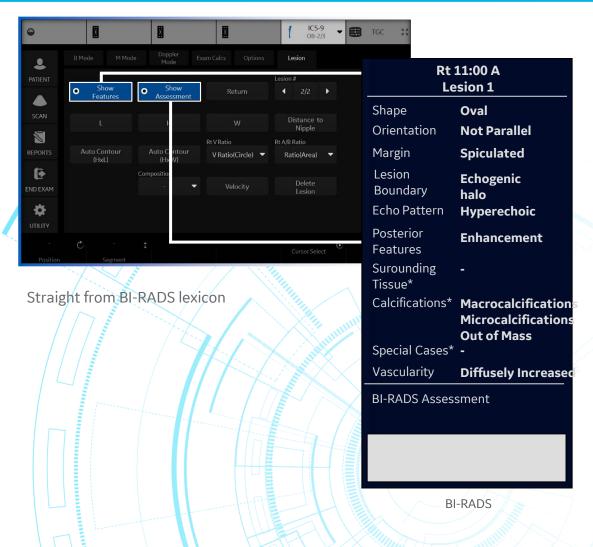


Breast Productivity

Help to describe your lesion

A dedicated breast-specific measurement package that allows users to:

- Make labeling, measuring and describing lesion easy
- Leverage the BI-RADS[®] lexicon criteria/assessment
- Organizes multiple measurements into a convenient worksheet
- Send results via DICOM[®] SR





Match Real Time Ultrasound with a Volume DICOM[®] Dataset from MR modality

Volume Navigation

Fusion-navigation US/MR

- Advantages of US Real Time Imaging associated with High spatial/contrast of MRI
- Help increase precision and accuracy of imaging-guided interventional procedures like biopsy
- Help identify lesions poorly visualized with US thanks to GPS
- Adequate visible lesions with US, but coexisting with difficult targets
- Active Tracker for Quick US/MR Auto-Registration and breath compensation



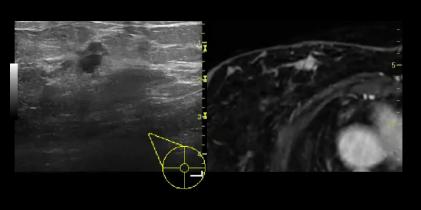


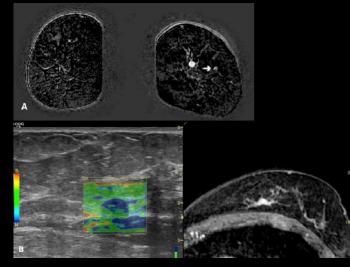


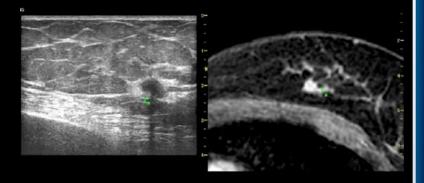


2018

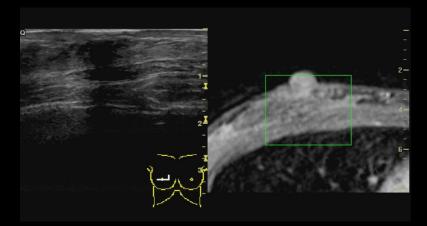
LOGIQ[™] E10 Series – Fusion/Navigation US/MR

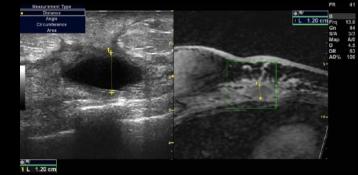


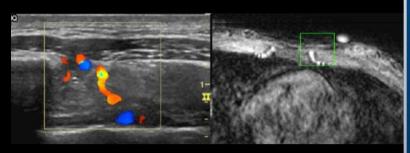




US Elastography/MRI Fusion – Hard lesion difficult to diagnose in MRI







US/MRI Fusion – Inflammatory Fluid Collection measurements

US/MRI Fusion – Internal Mammary artery depiction



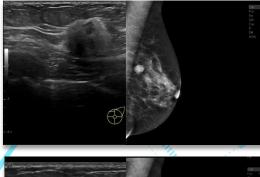
2018

One click Query/Retrieve View side-by-side with a real-time ultrasound image

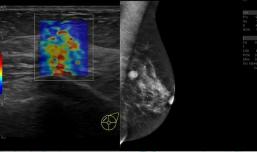
The feature allows to retrieve any MR or Mammo dataset from PACS onto LOGIQ E10 that can help to find the most relevant view of the anatomical area in exam











Quickly get to an area of interest during Ultrasound exam



Compare Assistant

Help for an effective monitoring of progressive pathologies

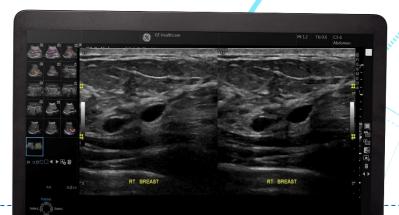


Effective temporal tracking

The tool offers the ability to compare the US examination of the day to a previous one, ideal for monitoring the evolution of lesions over time

Saving Time during exam

When opening the previous exam, comparison is strict, since the imaging parameters are also included



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2018

Freatment and Follow-up

Facilitates patient explanations

The comparison helps the radiologist in explaining the course of the pathology directly during US exam



