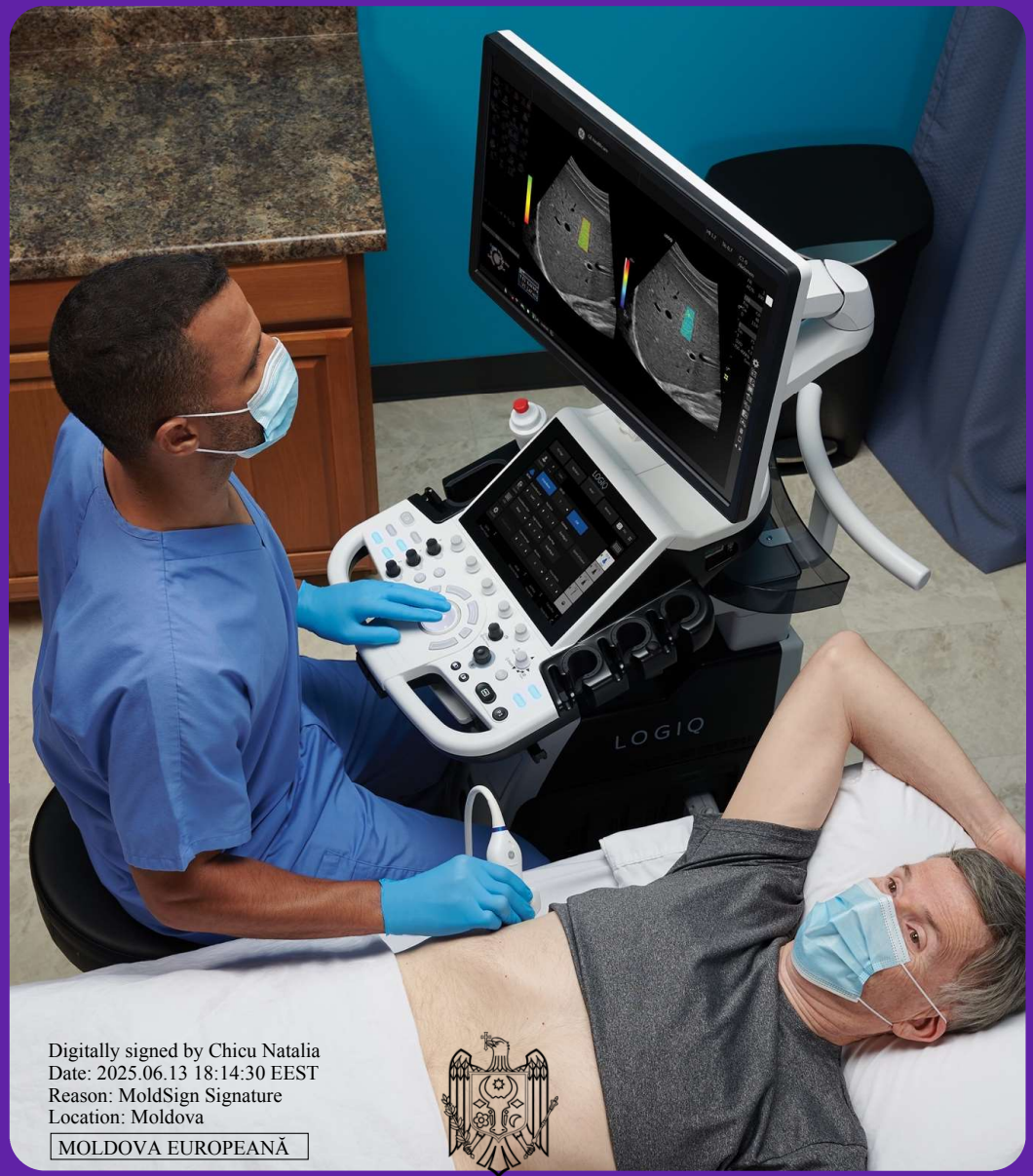
LOGIQ™ P10 XDclear™
Performance Series

Make it easy. Make it your own.



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Challenging ultrasound environment

Time & quality challenges

- Growing patient volume
- Need for fast, accurate diagnosis

Operator essentials

- User-friendly equipment
- Avoid work related injuries

Economic pressures

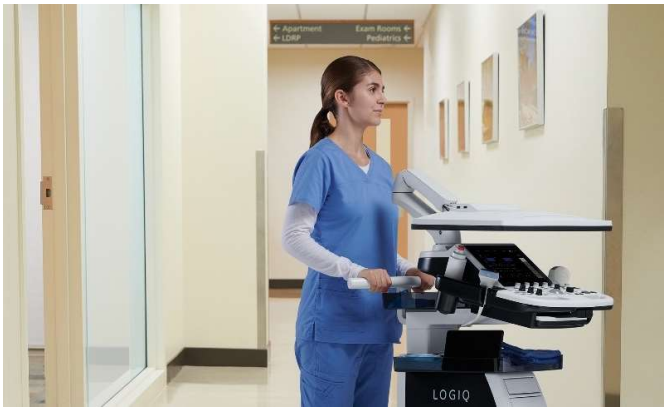
- Budget constraints
- Declining reimbursement
- ROI and life cycle costs

Physical environment

- Easily disinfected and cleanable
- Cramped exam rooms
- Increasing need for portable exams

Patient expectations

- Well-informed patients
- Comfort and safety



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GE HealthCare Ultrasound innovation

Designed with your patients in mind

Radiology/ Vascular	Cardiovascular	Women's Health	Breast Screening	Point of Care	Hand-held
LOGIQ™ Family	Vivid™ Family	Voluson™ Family	Invenia™ ABUS 2.0	Venue™ Family	Vscan™ Family

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GI Ultrasound

Continued innovation

LOGIQ™ P10 XDclear/
P9 XDclear/P8

LOGIQ S8
XDclear™ 2.0

LOGIQ E10s

LOGIQ E10

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LOGIQ™ P10 XDclear™

Make it easy. Make it your own.

Personalized workflow tools and automation…for efficiency

The new LOGIQ P10 XDclear ultrasound system brings you advanced ways to increase everyday efficiency—tools and functions you can customize to your own preferences, so exams flow easily, your way.

Expanded patient-centric diagnostic capabilities…for flexibility

Equipped with a robust set of advanced features, the LOGIQ P10 XDclear system gives you the flexibility to manage simple to complex cases.

Powerful support… for long-term value

The LOGIQ P10 XDclear system gives you access to industry-leading security, data management, and educational resources to help you optimize system uptime and utilization, while enhancing user skills.

Advanced features. Everyday affordability.

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Organizing schema for LOGIQ™ P10 XDclear™ (R4)

Make it easy. Make it your own.

Personalized workflow tools and automation…for efficiency

- Touch Control, UI – Joystick, LOGIQ brand usability
- Ergonomics, transportable, button probe
- LOGIQ apps: Photo Assistant & Remote Control
- My Page, Start Assistant, My Preset
- Power Assistant
- Vnav Import
- Auto tools: Auto TGC, AutoEF, Auto IMT, Measure Assistant, Compare Assistant, Scan Assistant, Measurement enhancements
- CTO
- SonoNT, SonoIT
- AI tools: Auto Lesion Segmentation, OB Measurement Assistant, Auto Doppler Assistant, Breast Assistant, powered by Koios DS™

Expanded patient-centric diagnostic capabilities…for flexibility

- Excellent IQ, LCD display, HDU display
- Advanced features: SWE enhancements & Strain, Raw Data, CEUS, B-Flow, B-Flow Color, HD Color, HD*live*™, Stress Echo, STIC/Omniview, TVI/TVD, Cardiac Strain, B-Steer +, urology dual display, UGAP, SRI, 3D/4D enhancements with SonoRender*live*
- XDclear™ probes
- Sono AVC
- Urology enhancement
- CF/PW Enhancement
- Multi-purpose – Abdomen, Liver, Cardiac, OB/GYN, Vascular, Breast, Thyroid, MSK, Urology, Pediatrics

Powerful support… for long-term value

- My Trainer
- Data Management
- Tricefy™
- SonoDefense enhancements
- Life Cycle Solutions

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Personalized workflow

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LOGIQ™ P10 XDclear™

Personalized workflow tools and automation for efficiency

Personalized set-up tools

- Users can customize their own workflow preferences and launch in seconds
  - Start Assistant
  - My Page
  - My Preset

AI-based tools

- Harnesses artificial intelligence for imaging standardization and speed
  - Auto Lesion Segmentation
  - OB Measurement Assistant
  - Auto Doppler Assistant
  - Breast Assistant powered by Koios DS™*

Automated scanning tools

- Help reduce exam time and increase user efficiency
  - Continuous Tissue Optimization (CTO)
  - Auto IMT
  - AutoEF
  - Measure Assistant
  - Compare Assistant
  - Scan Assistant

LOGIQ brand usability

- Redesigned user interface — with customizable keys — offers the simplicity and ease of operation you've come to expect

*Not all products or features are available in all geographies. Check with your local GE HealthCare representative for availability in your country.

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Patient-centric diagnosis

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LOGIQ™ P10 XDclear™

Helps you improve patient care

Superb image quality with XDclear probes

- Powerful high fidelity and broad bandwidth produce high resolution images
- Scan superficial or deep targets – or any point in between
- XDclear probes include C1-6-D, C3-10-D and M5Sc-RS
- New probes include C2-7-D, 10C-D

Advanced imaging and visualization tools[1]

- Ultrasound-Guided Attenuation Parameter (UGAP) a real-time, image-guided method to measure fatty content in the liver tissue and assess non-alcoholic fatty liver disease (NAFLD)
- 2D Shear Wave Elastography with Quality Indicator and Anatomical Site Reporting
- 3D/4D with SonoRender*live*

Multi-purpose capabilities for a diverse caseload

- Including liver, cardiac, OB/GYN, breast, thyroid, musculoskeletal, urologic, vascular and pediatric studies

GE HealthCare

1. Refer to the LOGIQ P10 XDclear Product Data Sheet for a list of purchasable options.

LOGIQ P10 XDclear Customer Presentation

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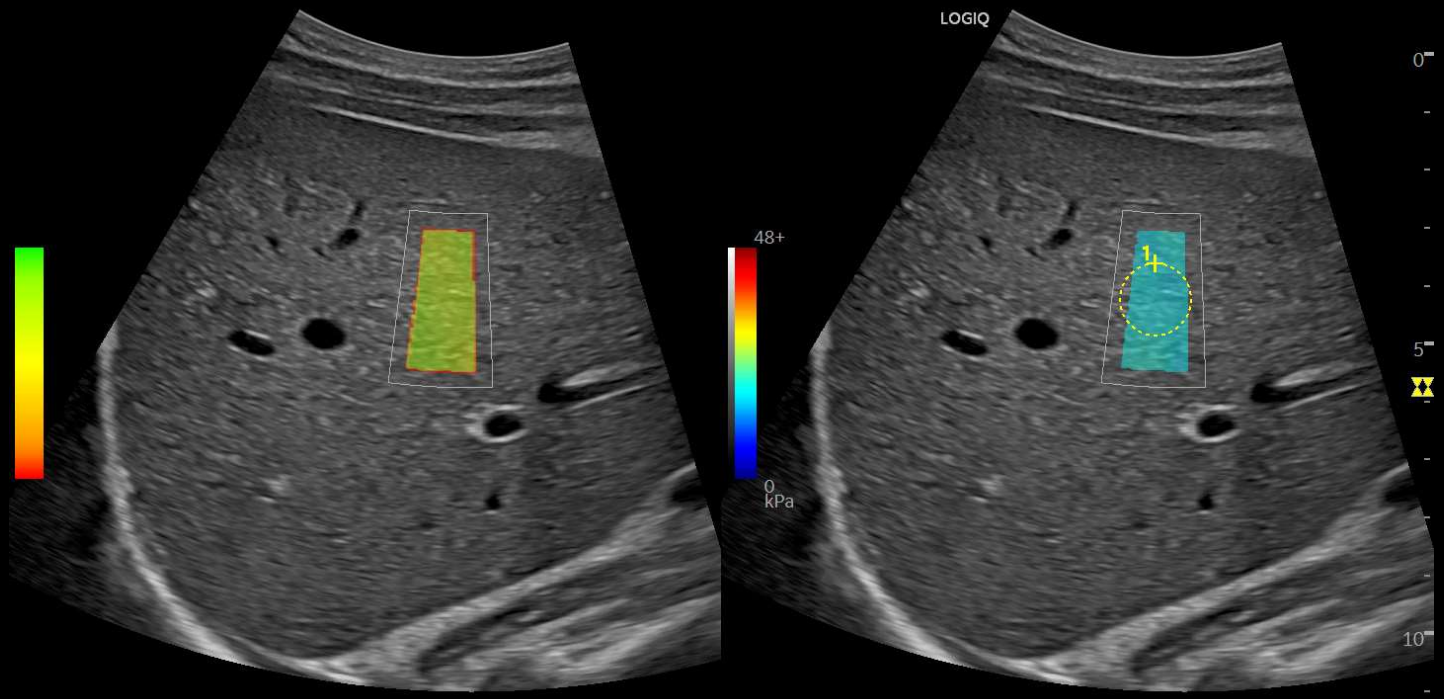
Spotlight on liver

2D Shear Wave Elastography with Quality Indicator, C1-6-D

LOGIQ™ P10

Quantitative measurement of tissue elasticity displayed in color-coded elastograms. Useful in liver, breast and small parts applications.



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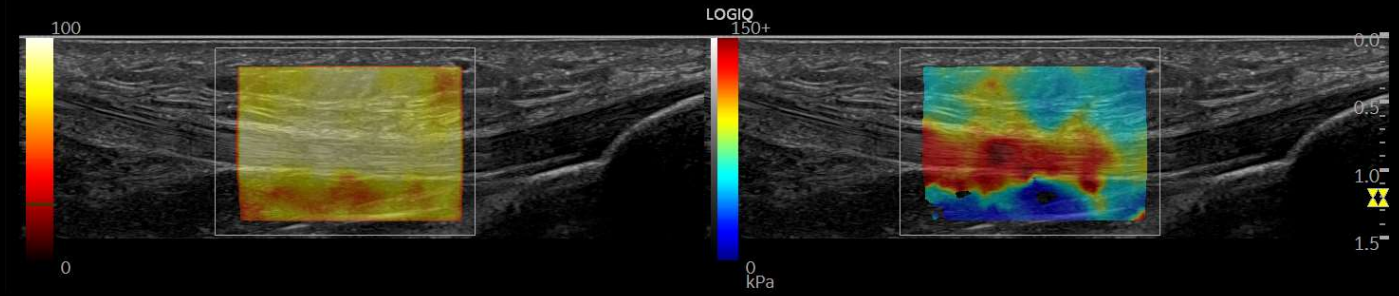
Spotlight on MSK

2D Shear Wave Elastography with Quality Indicator, patellar tendon, ML6-15-RS

LOGIQ™ P10

Quantitative measurement of tissue elasticity displayed in color-coded elastograms. Useful in liver, breast and small parts applications.



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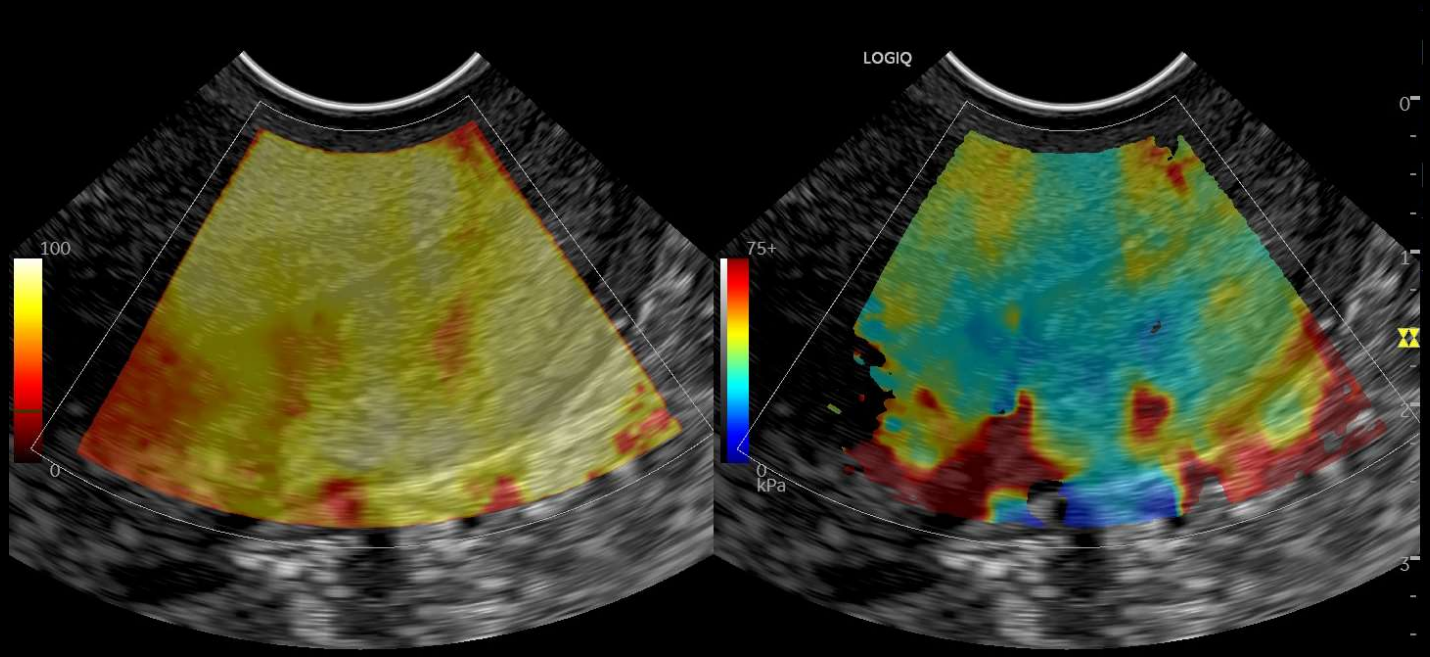
Spotlight on GYN

2D Shear Wave Elastography with Quality Indicator, cervix, IC9-RS

LOGIQ™ P10

Quantitative measurement of tissue elasticity displayed in color-coded elastograms.



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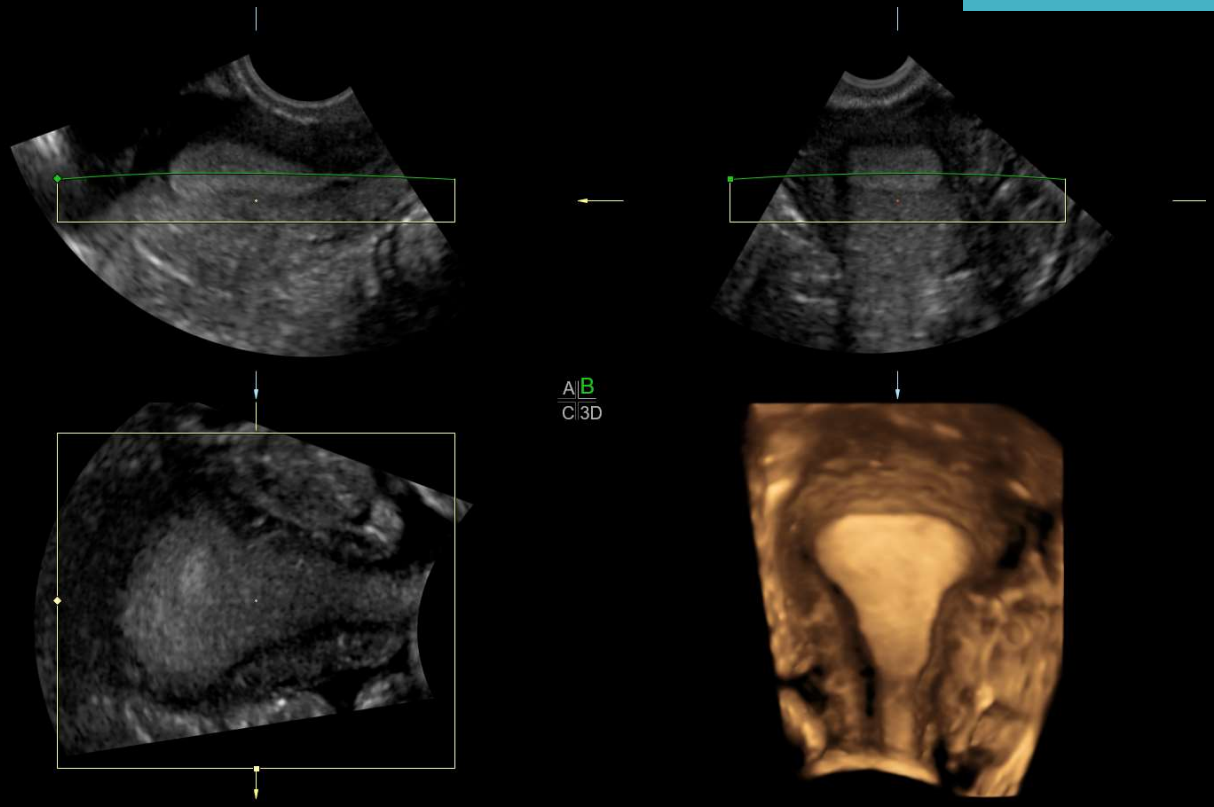
Spotlight on 3D rendering

Gynecological assessment tools

LOGIQ™ P10

Advanced Volume Contrast Imaging (VCI) with OmniView – Diagnostic confidence in sonography requires the ability to differentiate irregular shapes with precision. This tool can help improve contrast resolution and visualization of the rendered anatomy with clarity in any image plane.



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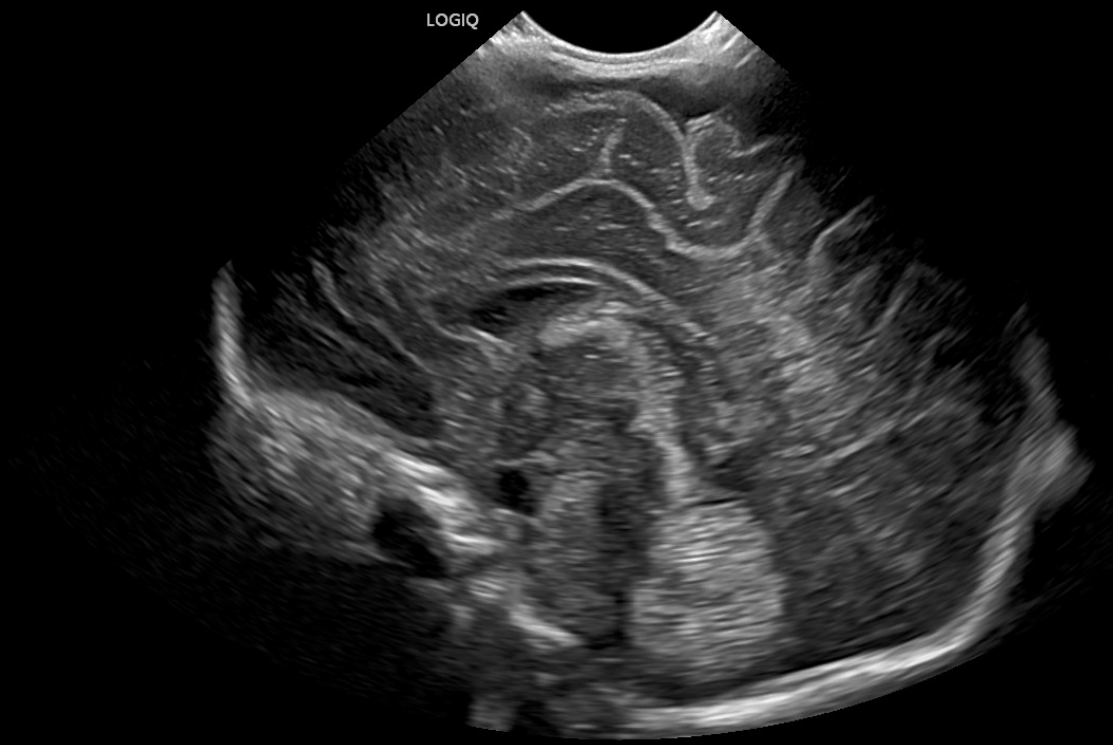
Spotlight on pediatrics

Neonatal head with XDclear™ transducer technology, C3-10-D

LOGIQ™ P10

Superb image quality and transducer technology combine to help clinicians quickly diagnose a wide range of pediatric conditions.



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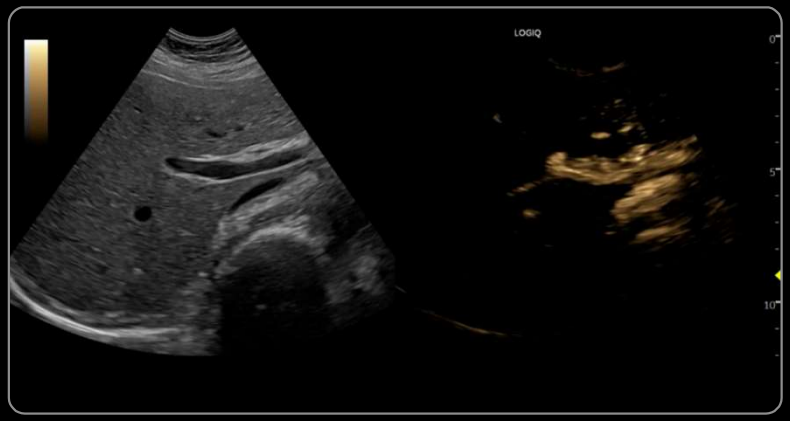
Abdominal

Liver B-Mode, C1-5-RS



B-Flow dual liver, C2-7-D

Appendix, L3-12-RS

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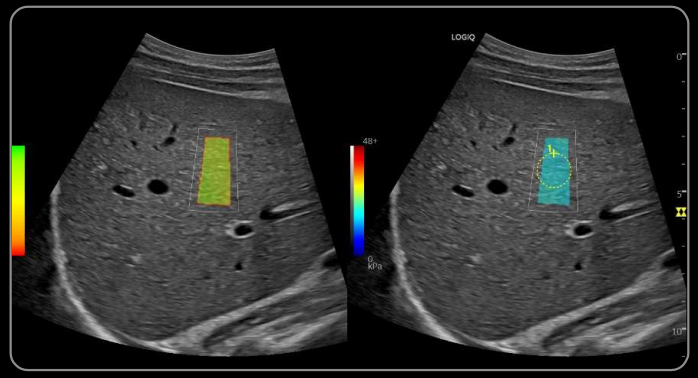
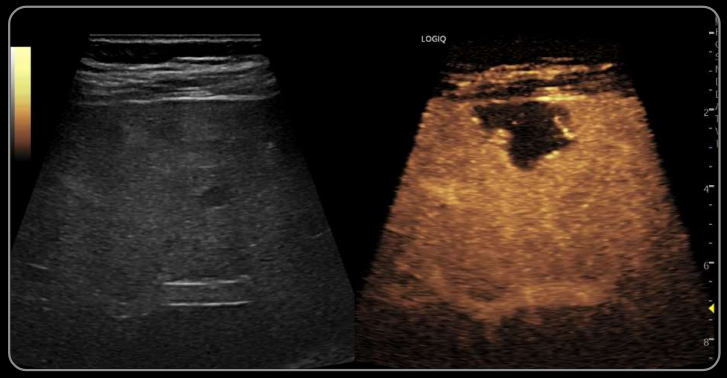
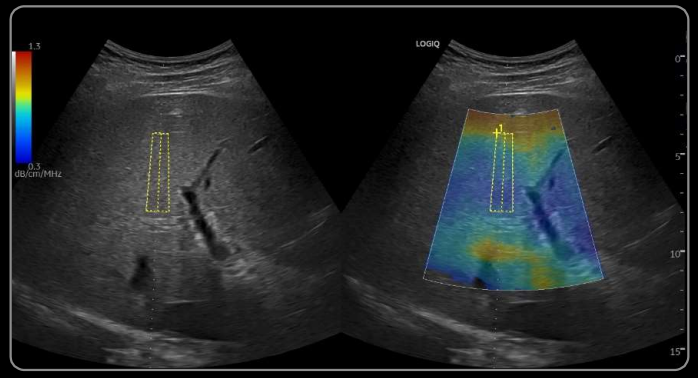
Liver



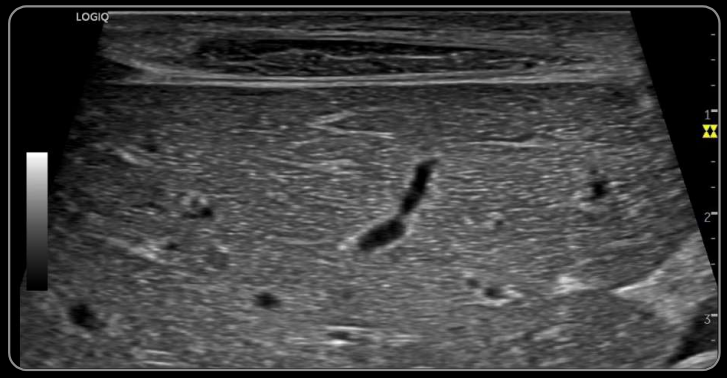
Liver SWE with Quality Indicator, C1-6 -D



Liver CEUS, 9L-RS



Liver UGAP, C1-6-D



Liver contour using Virtual Convex, L3-12-RS

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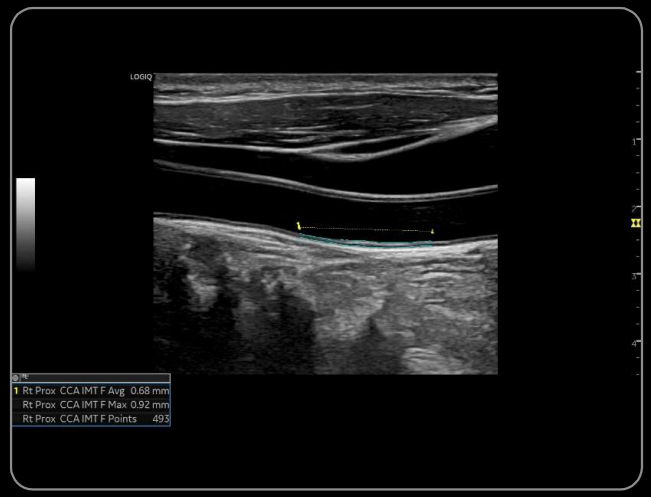
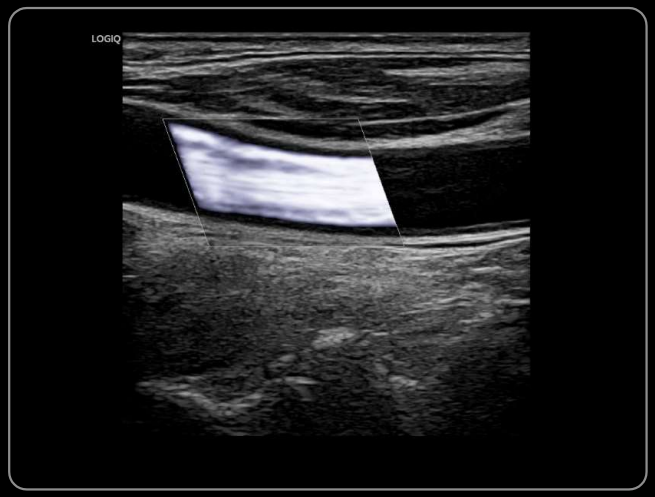
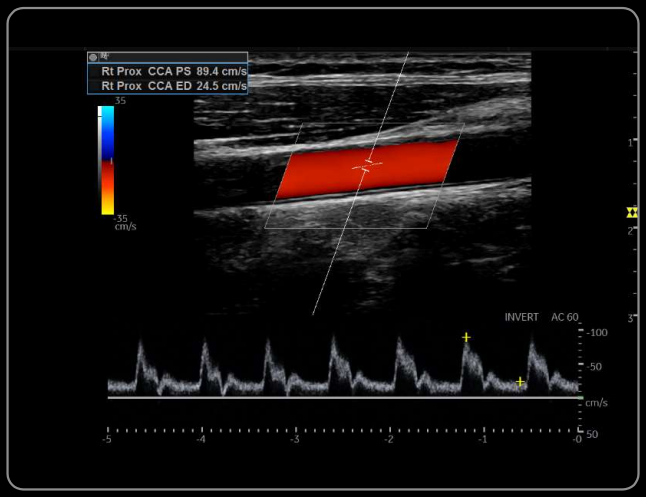
Vascular



Auto IMT measurement of CCA using L3-12-RS



Carotid B-Flow HD Color, 12L-RS



Carotid hemodynamics with PW using L4-12t-RS

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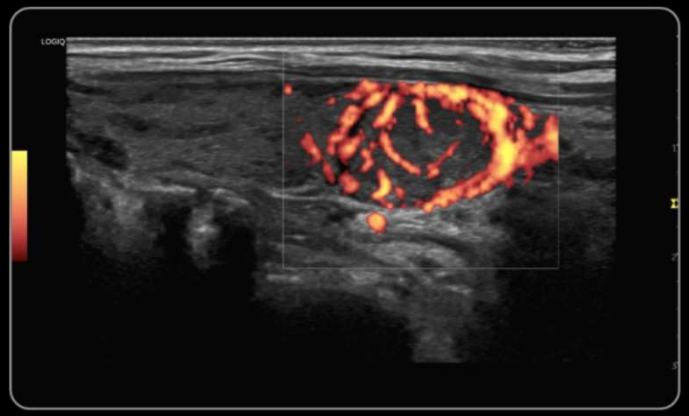
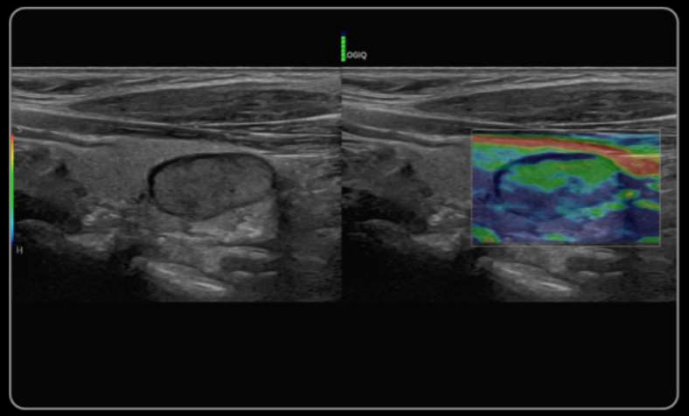
Small parts



Thyroid PDI, ML6-15-RS

Testis Virtual Convex, L3-12-RS



Thyroid Strain Elasto, L3-12-RS

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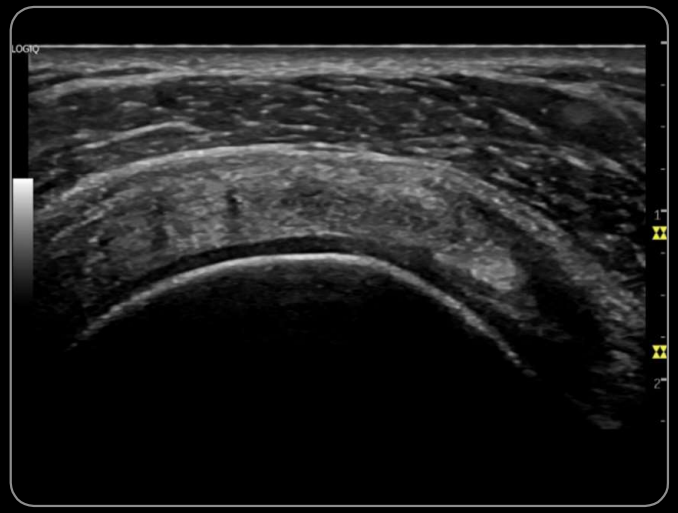
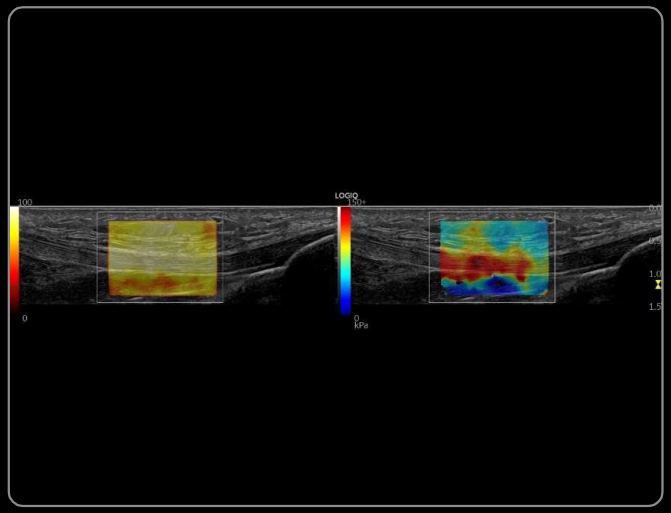
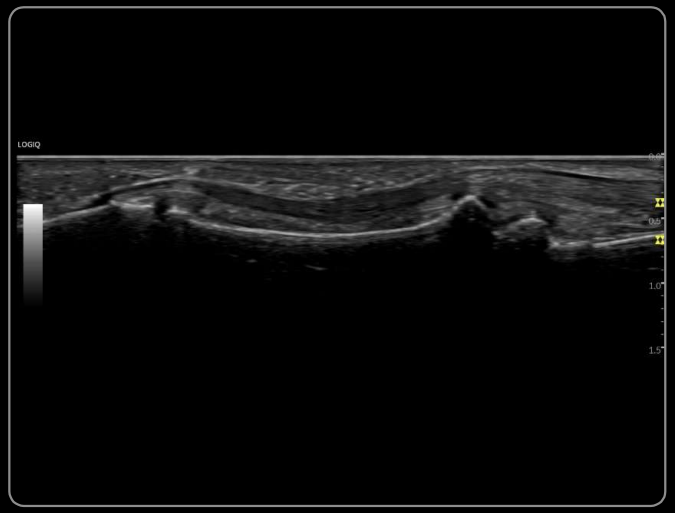
Musculoskeletal



Supraspinatus tendon, ML6-15-RS



2D Shear Wave Elastography with Quality Indicator, patellar tendon, ML6-15-RS



Flexor tendon of finger, ML6-15-RS

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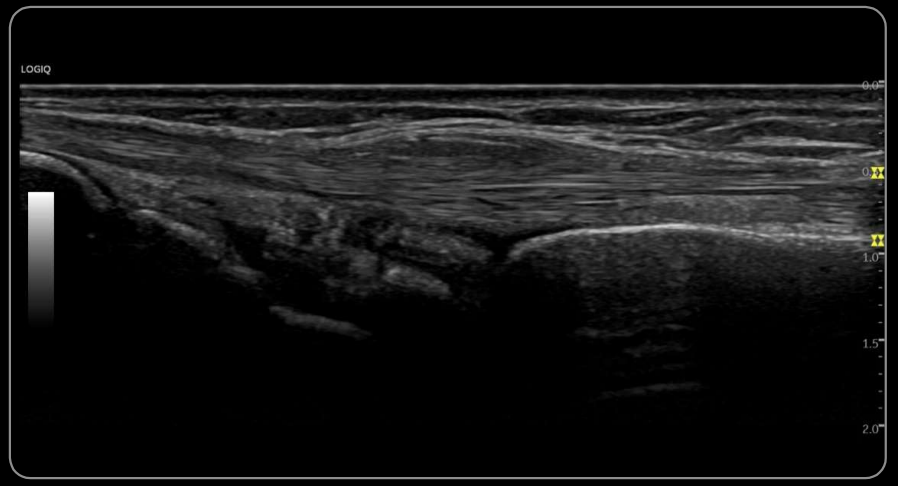
Musculoskeletal

CF of wrist with Virtual Convex, 12L-RS



Extensor tendon of wrist, ML6-15-RS

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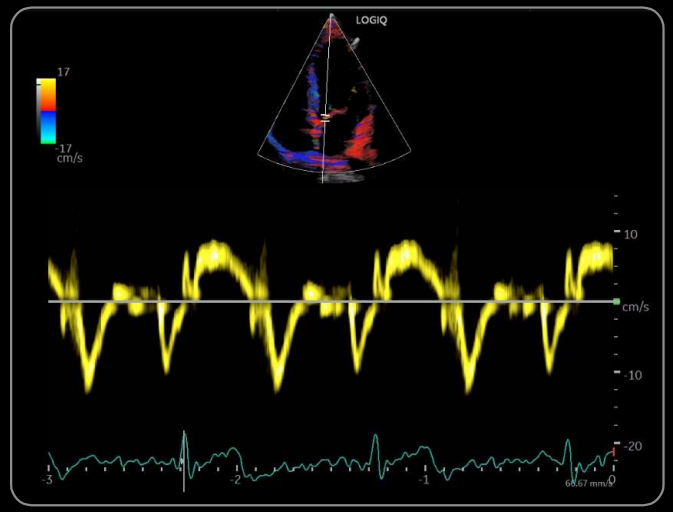
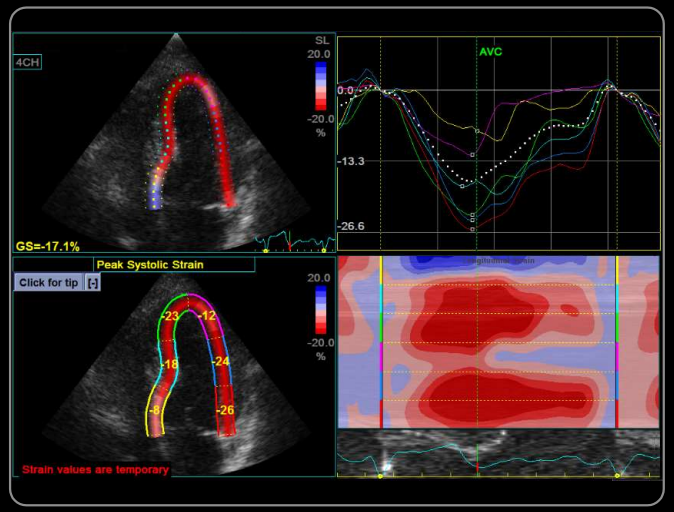
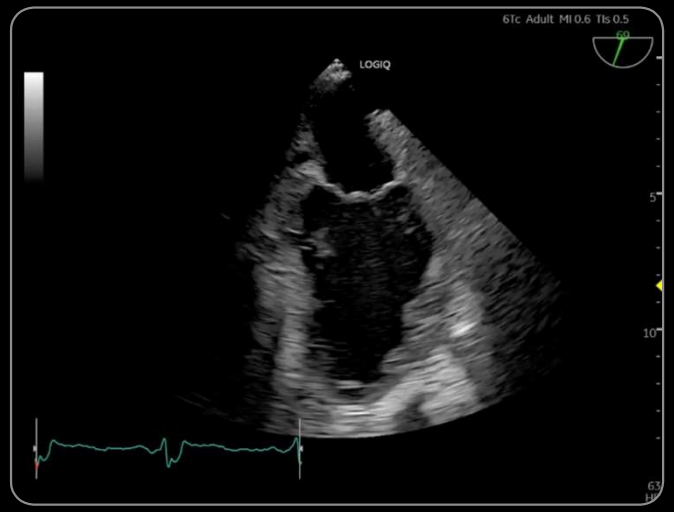
Cardiology



TVI TVD, M5Sc-RS



Strain image of 4CH, 3Sc-RS



Mitral valve, 6Tc-RS

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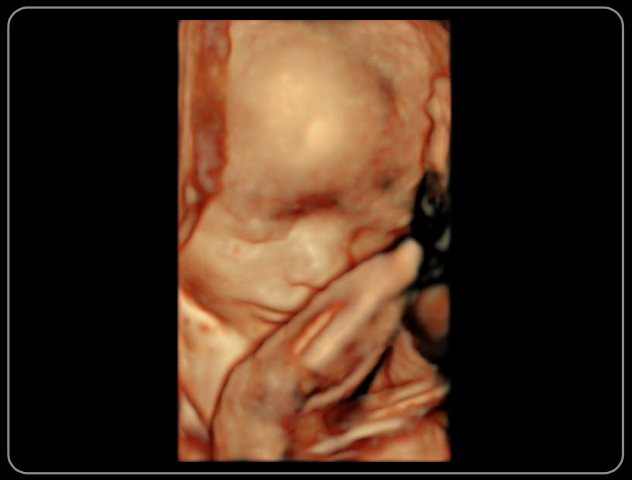
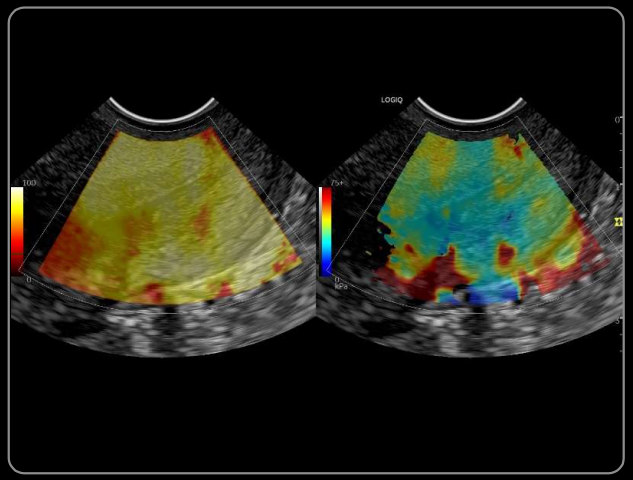
OB/GYN



3D HD*live*™ imaging of the fetus with RAB2-6-RS



2D Shear Wave Elastography with Quality Indicator, cervix, IC9-RS

4CH heart, C1-6-D

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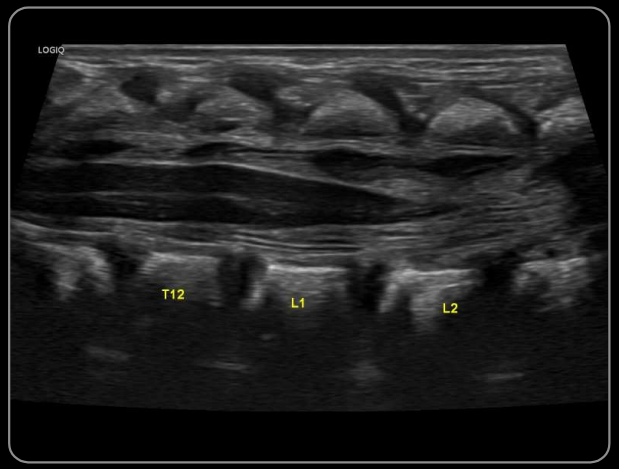
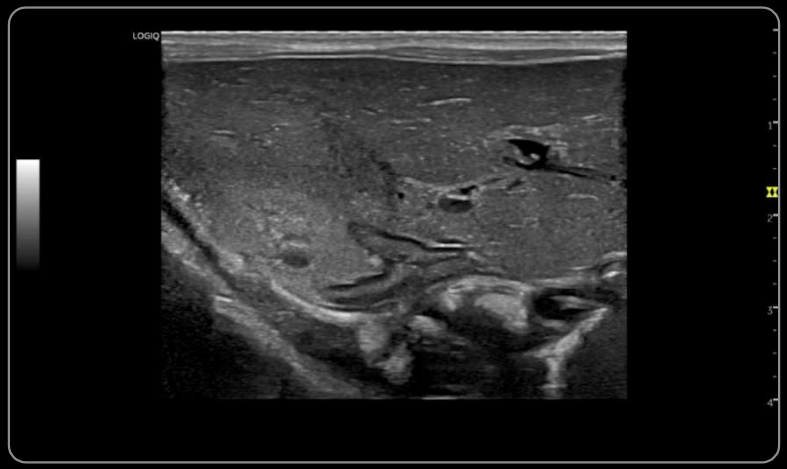
Pediatrics

Neonatal head, C3-10-D



Neonatal spine B-Mode, 12L-RS



Neonatal abdomen, ML6-15-RS

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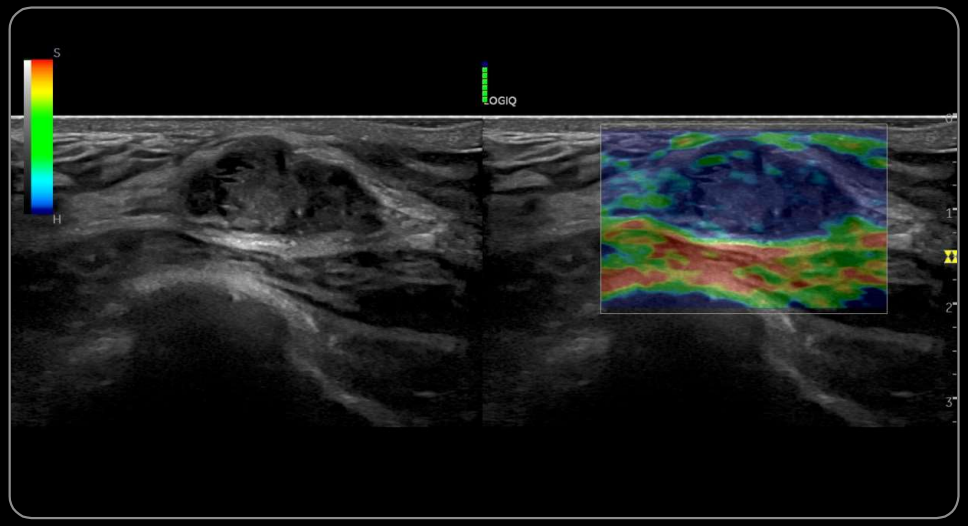
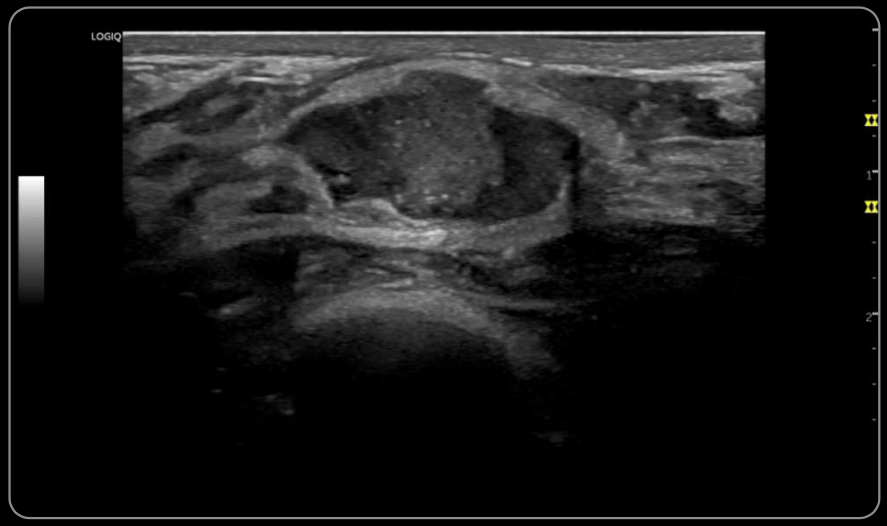
Breast



Breast Strain Elastography, ML6-15-RS



Breast, ML6-15-RS

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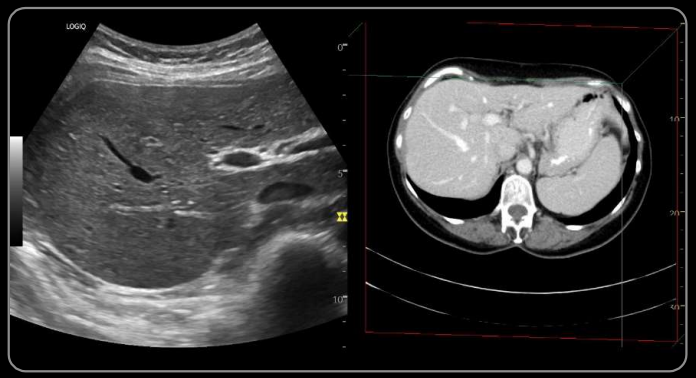
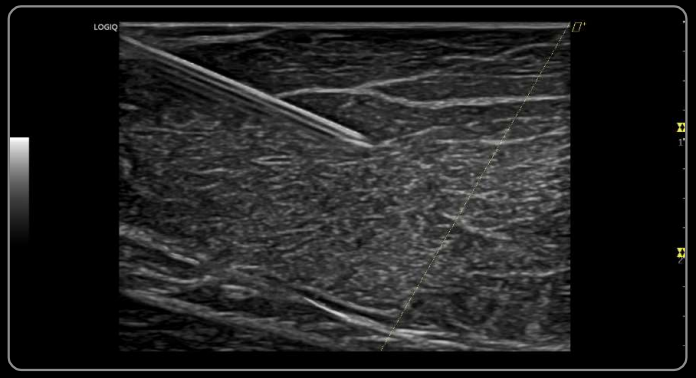
Interventional

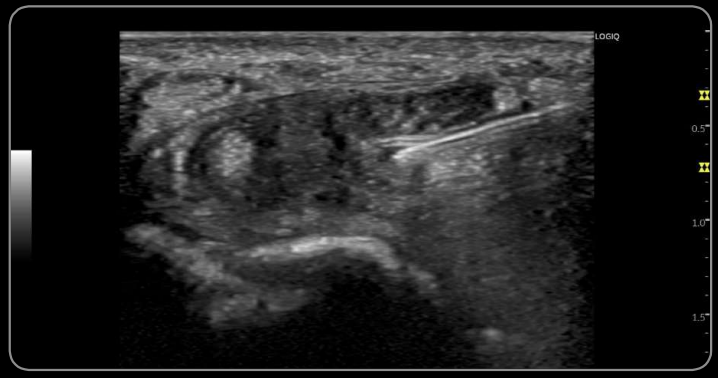


Liver, C1-5-RS and CT abdominal scan

Shoulder bursa injection, ML6-15-RS



MSK B-Steer+, 12L-RS



Wrist injection, L8-18i-RS

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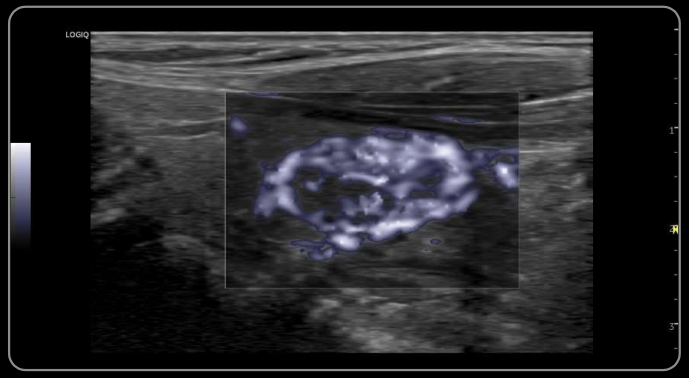
B-Flow imaging



B-Flow HD Color thyroid L3-12 -RS

B-Flow dual LEV, L3-12-RS

Neonatal head B-Flow, 9L-RS

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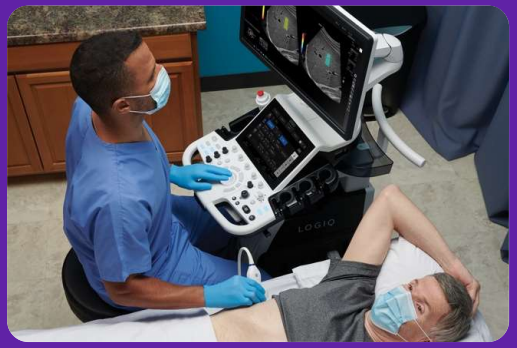
Powerful support



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LOGIQ™ P10 XDclear™

Advanced data security and educational resources

Optimize system uptime and utilization, while enhancing user skills

SonoDefense

Built on the Windows® 10 Internet of Things (IoT) operating system, SonoDefense provides multi-layer security to protect system integrity and patient data privacy.

My Trainer

Self-training modules — available on-board, online or in the app — help new users become proficient quickly.

Data management tools

Easy data migration supported by DICOM® and cloud-based image collection with anonymization.

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Customer care

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LOGIQ™ P10 XDclear™

Make it easy. Make it your own.

Tailored solutions[1] to help you address your daily challenges

Education

- My Trainer – On-board training modules
- LOGIQ Club community and product educational services
- Access to additional purchasable online and in-person education

Service and care

- Three years of service included with purchase
- InSite™ remote support
- Dedicated financial solutions
- Probe care
- http://www.gehealthcare.com/transducers

1. Refer to the LOGIQ P10 XDclear Product Data Sheet for a list of purchasable options.

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LOGIQ™ P10 remote support: InSite™

Designed for:	Clinical and biomed staff
Problem:	Waiting for help on technical or applications problems impacts patients and operations
Solution:	Fast live response from OEM experts with InSite connection

InSite remote connectivity can help maximize your ultrasound uptime and investment. When you need help, our most experienced expert sonographers and engineers can electronically link to your system and quickly get you back up and running. **InSite experts have an average of 15-20 years experience.*** They resolve most issues remotely and reduce onsite time by proactively diagnosing problems.

Access GE HealthCare ultrasound experts directly with **one-touch on your system**

60% of ultrasound systems are repaired remotely, and often in **less than 20 minutes**

If your ultrasound cannot be repaired remotely, remote diagnostics can reduce on site repair time by **up to 70%**

Console
with "Contact GE" icon

Phone
In the USA, call 800-437-1171 and enter your system ID

Web
iCenter users can create a service request online

Fast live response from GE HealthCare clinical and service experts

*U.S. tech support and applications experience as of Dec. 2017.

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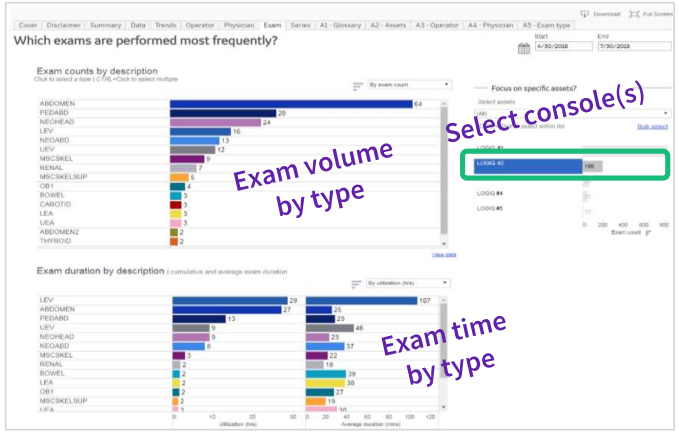
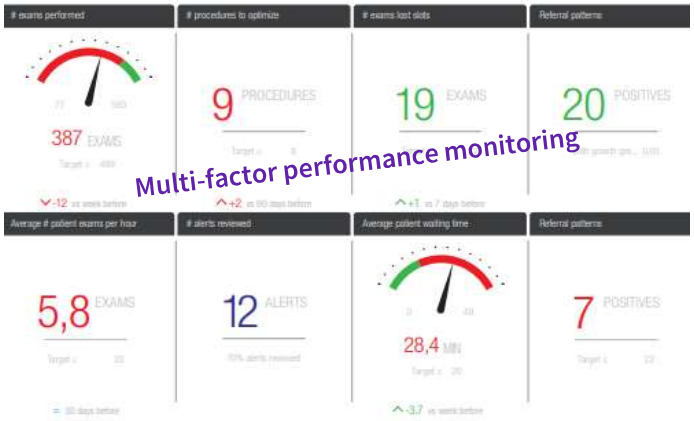
LOGIQ™ P10 productivity: Performance analytics

Designed for:	Ultrasound department manager with multiple assets
Problem:	Need visibility to exam volumes and throughput to optimize utilization of assets, staffing, and patient scheduling
Solution:	iCenter™ and Imaging Insights† uncover opportunities to improve use of assets and personnel



iCenter*	Imaging Insights†
Built-in, web-based	On-premise app
Included w/ contract	Install w/ subscription
GE HealthCare product utilization & service data	GE HealthCare and multi-vendor asset & exam data
More info here	More info here



Example: Renal exams take longer than scheduled time. Exam history shows most longer exams occur Tuesday mornings. Action is taken to review of Renal exam training and procedures with Tuesday AM staff.

Example: Renal exams take longer than scheduled time. Analysis tools show scan time is 10 min longer than planned and longer exams do not use scan assistant. Actions are taken to extend renal exam schedule slots with targeted training on using scan assistant to improve workflow & protocol.

Optimize assets, capacity and scheduling with iCenter* or Imaging Insights†

*Requires InSite connection and iCenter license. Availability and pricing vary by region.
†Requires on-premise installation. Availability and pricing vary by region.
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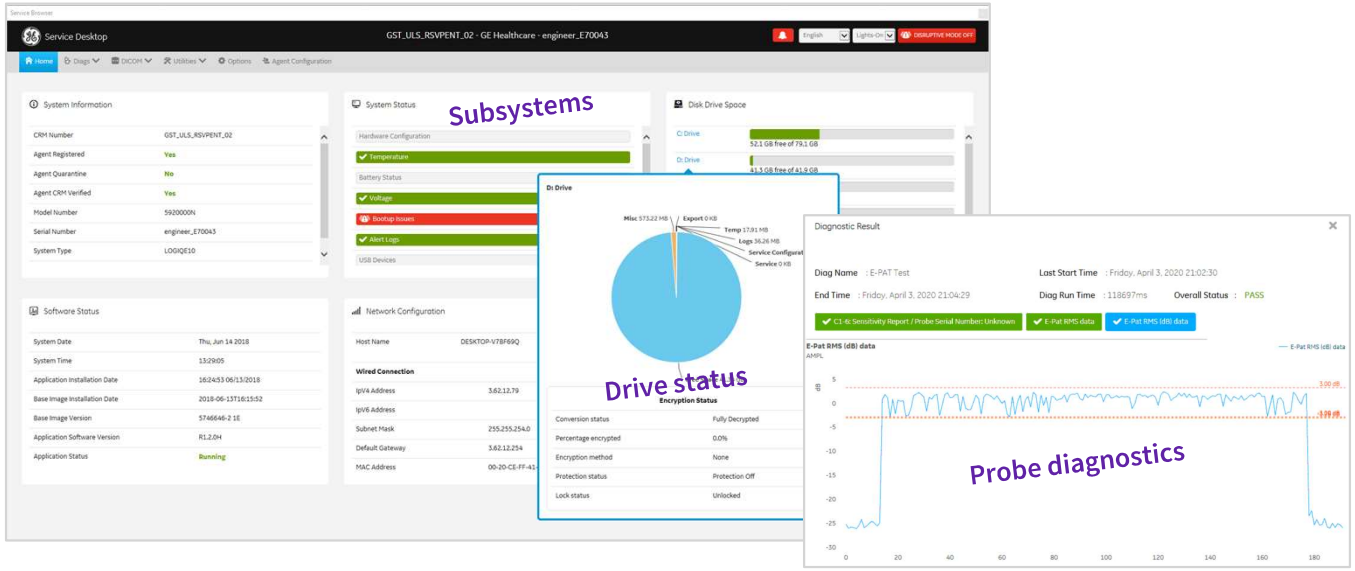
LOGIQ™ P10 biomed support: System Health Dashboard*

Designed for:	Biomed and equipment maintenance personnel
Problem:	Diagnosing problems on a complex ultrasound device can be time consuming
Solution:	Advanced diagnostics with a simple visual interface can help reduce repair time and improve asset availability

Visual status of key subsystems, intelligent alerts, and click-through details make it easier to manage preventative and corrective maintenance for qualified users. Includes new diagnostics for connected probes that run-in air (no probe manipulation).

Dashboard features are enabled remotely and are included with proprietary service license (offered with in house support contracts).



Intelligent visual diagnostics simplify maintenance and support biomed productivity

*Requires proprietary service license. Availability and pricing vary by region.
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LOGIQ™ P10 XDclear™
Performance Series

Make it easy. Make it your own.

Its sleek, lightweight design incorporates powerful technologies while enhancing workflow and user experience.

All at an affordable price that helps meet budget expectations.

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GE HealthCare

Personalized workflow

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My Page

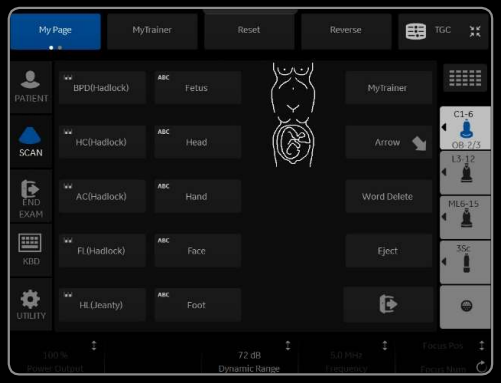
Configurable on each My Page

- GE HealthCare innovative personalization feature
- Preset depended (Abd/Carotid/…has My Page)
- Each use case (preset) has My Page

Abd

Carotid

OB



Breast

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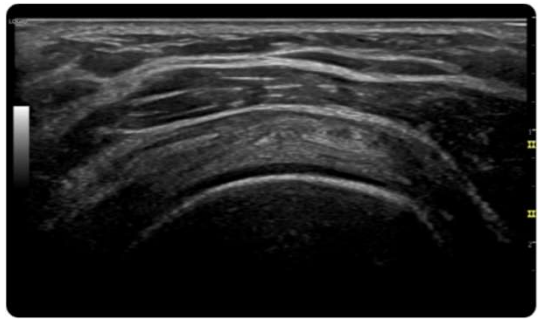
Start Assistant

Current workflow

1. Select Patient from Worklist
   Auto Populate Exam Description
2. Select Exam Category Tab
3. Select Scan Assistant
4. Exit Patient Screen
5. Select Probe
6. Select Application

With Start Assistant

1. Select Patient from Worklist
   Auto Populate Exam Description
   Auto Select Exam Category Tab
   Auto Select Scan Assistant
2. Exit Patient Screen
   Auto Select Probe
   Auto Select Application



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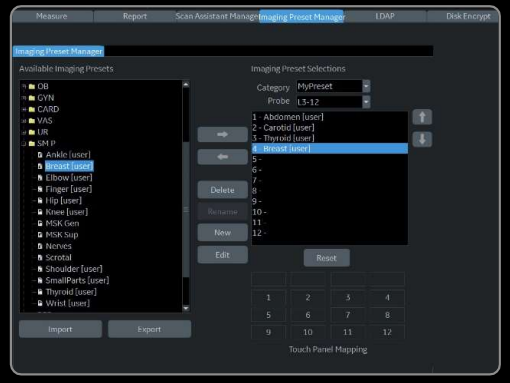
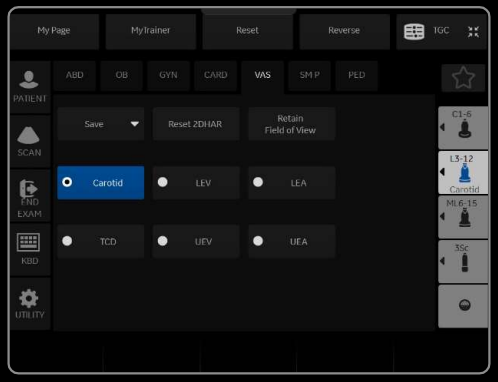
My Preset

With My Preset, users can customize their own workflow preferences and use case presets, and then launch these settings in seconds.

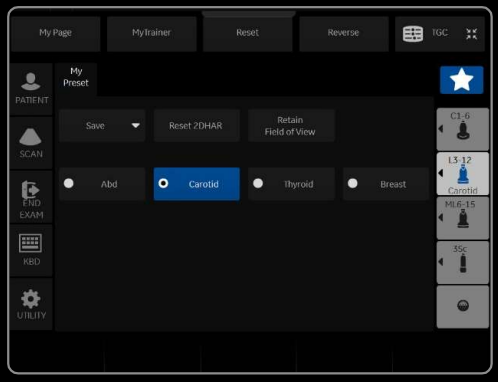
Utility page



My Preset off



My Preset on



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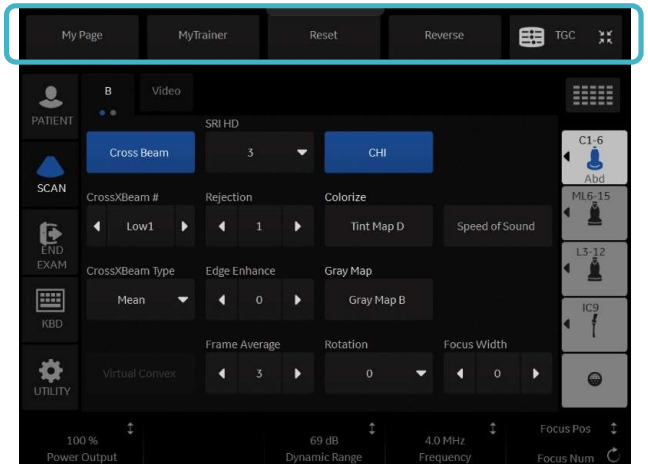
Additional configurable capability

1: 7 physical user defined keys

2: Freeze & P1
Exchangeable

5 digital user defined keys



Configurable smart keys

Imaging mode	Function
Live B, Con, B-Flow	Focal Zone Up/Down
	Frequency Up/Down
CF, TVI, B-Flow Color, PDI	Box Steer
	Scale (PRF) Up/Down Auto Doppler Assistant
PWD, CW, TVD	Baseline Up/Down
	Scale (PRF) Up/Down Auto Doopler Assistant
M/D cursor	Sample volume size

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Digital TGC control assigned to rotary knobs

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Ergonomic adaptable system[1]

Gel warmer

Rear handle

Small physical footprint

4 active probe ports with probe light –
3 x RS and 1 x DLP

1. Refer to the LOGIQ™ P10 XDclear Product Data Sheet for a list of purchasable options.
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Ergonomic adaptable system[1]

Multi-purpose holder (L&R reversible)

Physical A/N keyboard

23.8" monitor

Storage shelf

High cabinet

Side tray (L&R)

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Ergonomic adaptable system[1]

Rotate
+/– 30 degrees

Up/down
810 – 910 mm

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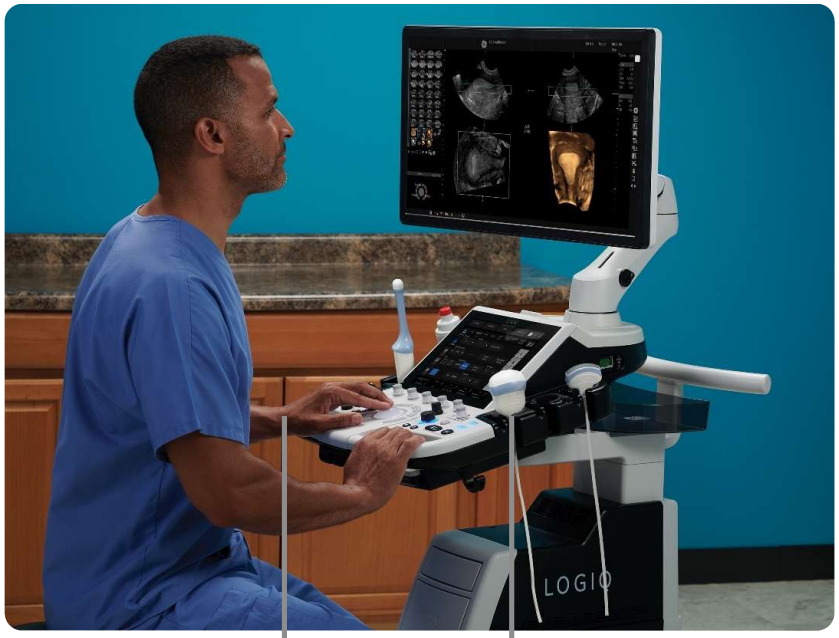
Ergonomic adaptable system[1]



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LOGIQ™ brand usability

The redesigned user interface — with customizable keys — delivers the simplicity and ease of operation you've come to expect from LOGIQ systems.

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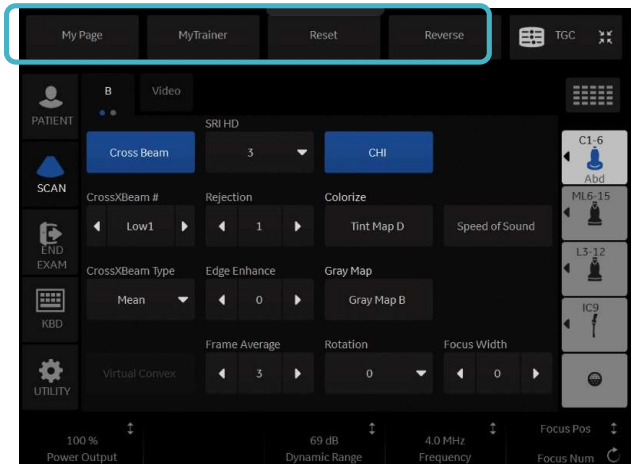
Additional configurable capability

1: 7 physical user defined keys

2: Freeze & P1
Exchangeable

4 digital user defined keys



Configurable smart keys

Imaging mode	Function
Live B, Con, B-Flow	Focal Zone Up/Down
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PWD, CW, TVD	Baseline Up/Down
	Scale (PRF) Up/Down Auto Doppler Assistant
M/D cursor	Sample volume size

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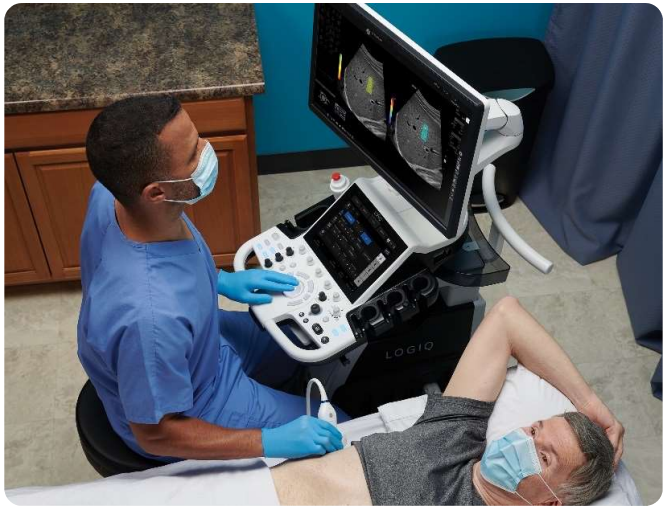
Intuitive interface

- Touch control for easy imaging parameter adjustment, even with gloves on
- 10.4" touch screen with simplified user interface
- User-friendly keys and backlight design
- Joystick



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System adjustability

Up and down

Articulating arm

Storage bins for carrying supplies

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Compact system – Easy to move

External battery for off-line scanning, up to one hour

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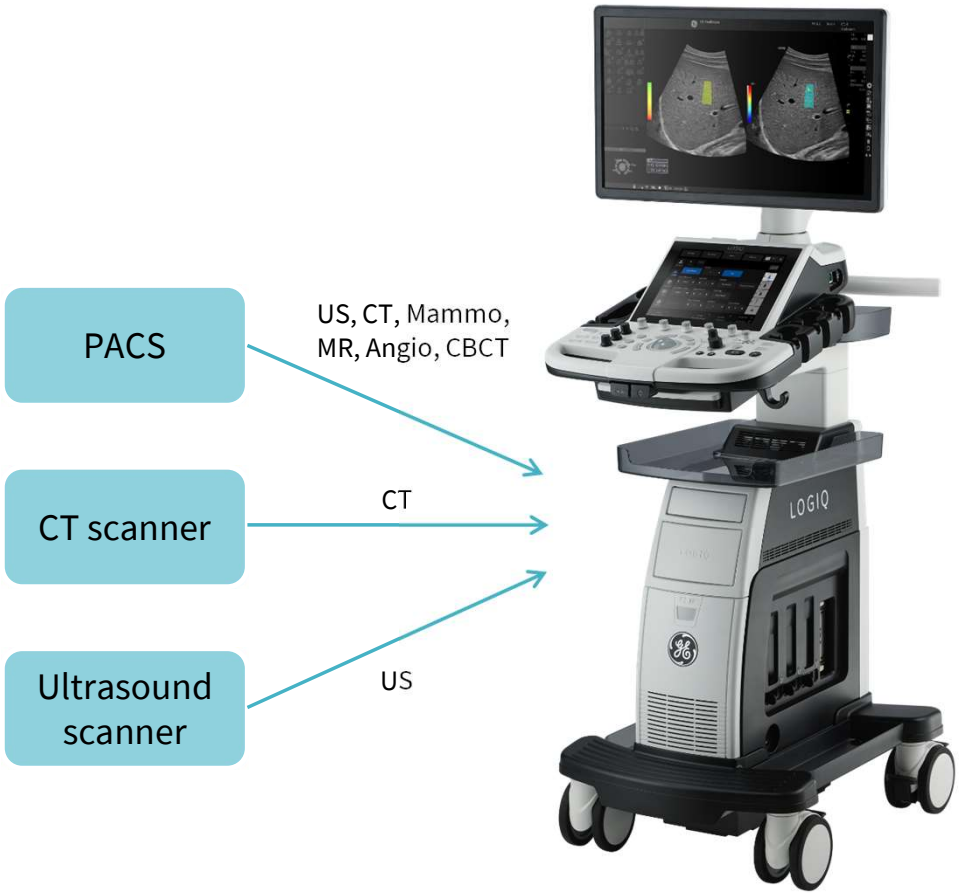
Easy access to PACS

Highlights

- Enables the console to receive exams from PACs in the background without interrupting workflow
- Easily pull images via Query Retrieve to console
- Operates both wired and wirelessly



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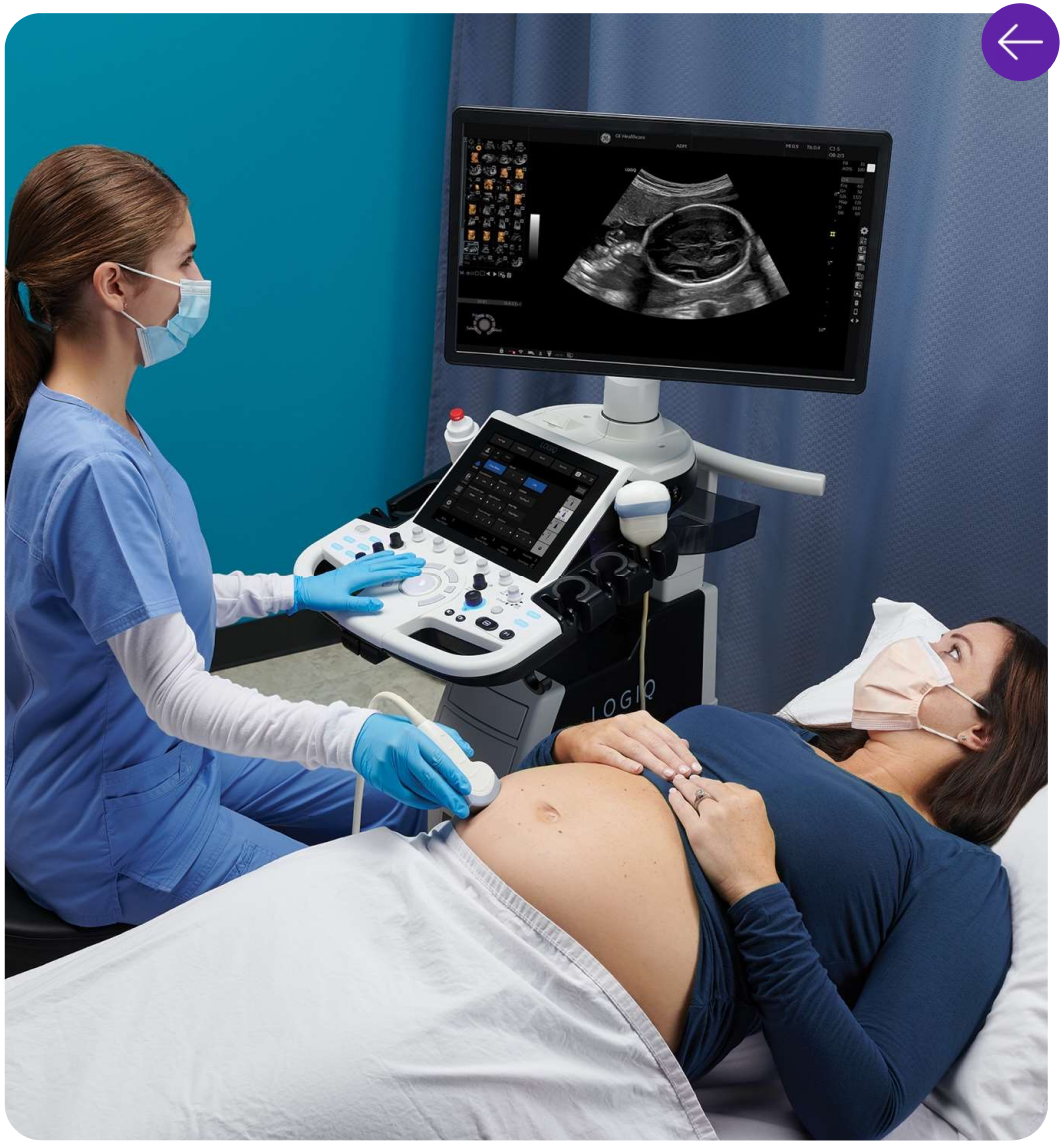
Fetal assessment tools

SonoNT and SonoIT semi-automated measurement tools support exam consistency and reproducibility, while SonoRender*live* automates render line placement in 3D/4D imaging.



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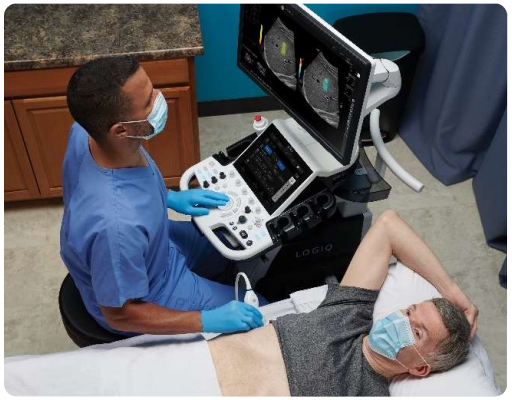
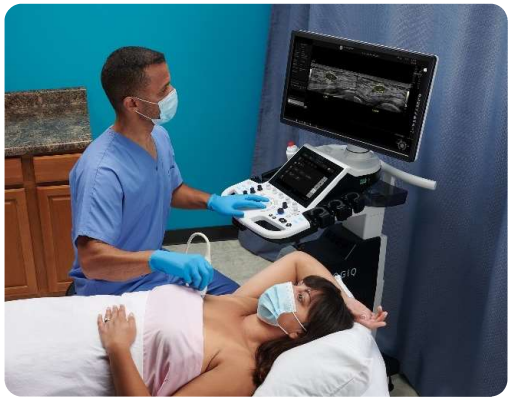
AI-based workflow and decision support tools

LOGIQ™ P10 XDclear™ harnesses artificial intelligence for imaging standardization, speed and decision support:

- Auto Lesion Segmentation
- OB Measurement Assistant
- Auto Doppler Assistant
- Breast Assistant, powered by Koios DS™*

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AI-based workflow tools

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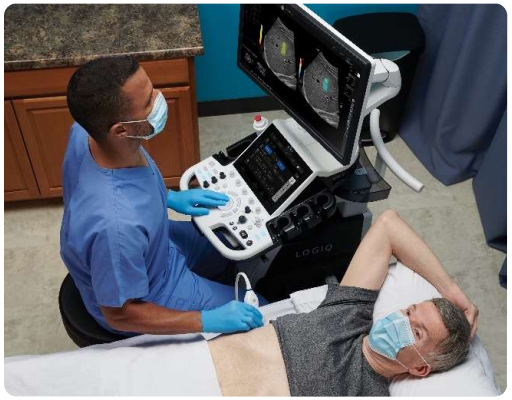

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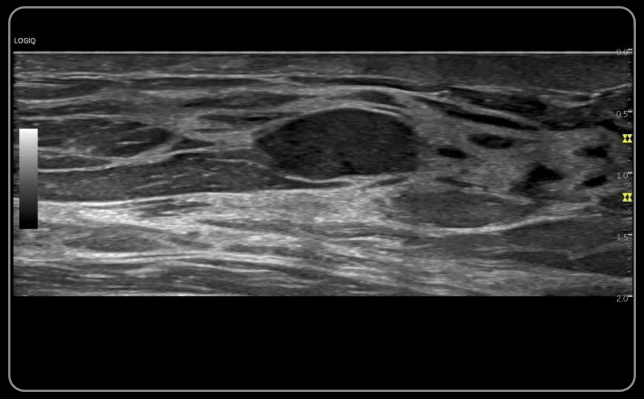
LOGIQ™ P10: Harnessing the power of AI

AI-based Auto Lesion Segmentation

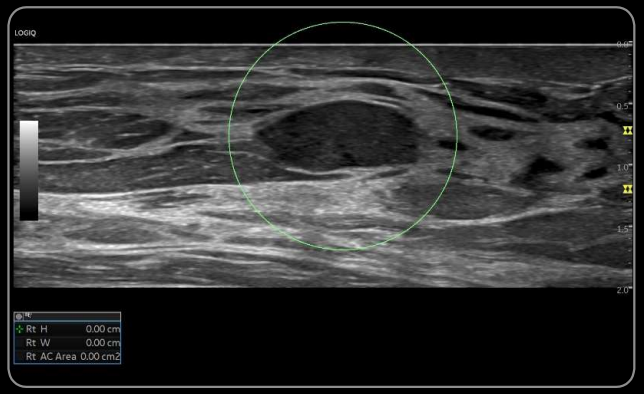
Edison

User identifies a breast, thyroid or liver lesion



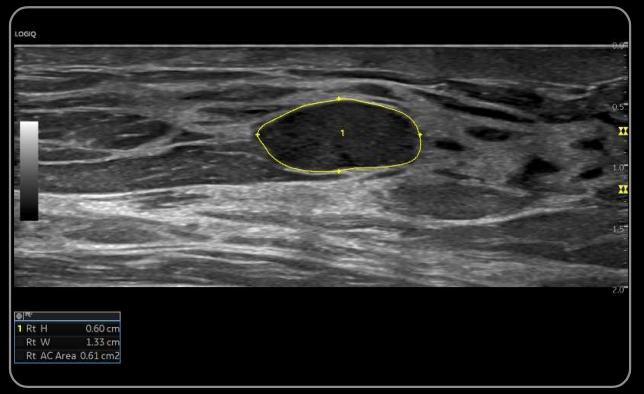
Benefit: Users scan as they normally would

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



Benefit: User identifies a lesion with a single click

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



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

Manual view classification

Semi-automated structure detection

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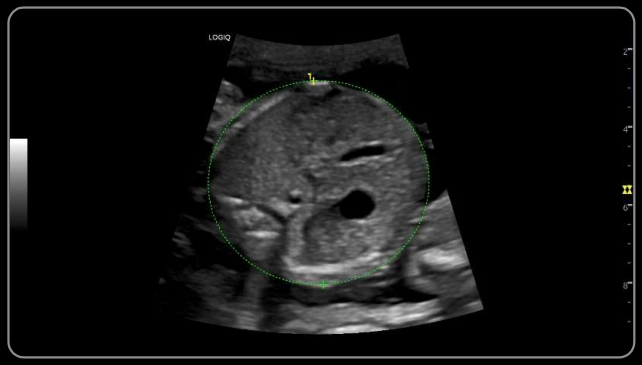
LOGIQ™ P10: Enhancing user productivity and experience over time | The journey to AI: Auto OB Assistant

Edison

User identifies a view appropriate for measuring the BPD, HC, AC, FL and HL and initiates a measurement

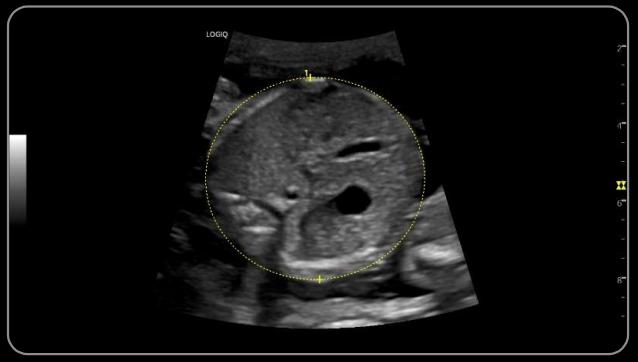
Benefit: Users scan and initiates a measurement as they normally would

Auto OB Assistant automatically segments out the appropriate structure from the image



Benefit: Measurement is automatically performed, saving keystrokes and providing consistency

The measurement result and associated fetal age is presented to the user



Benefit: Results presented to the user without extra steps

Manual view classification

Automated structure detection and results

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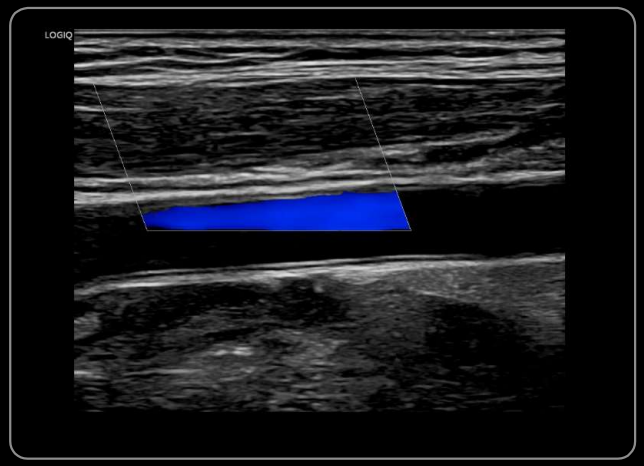
Harnessing the power of AI

AI-based Auto Doppler Assistant on the LOGIQ™ P10

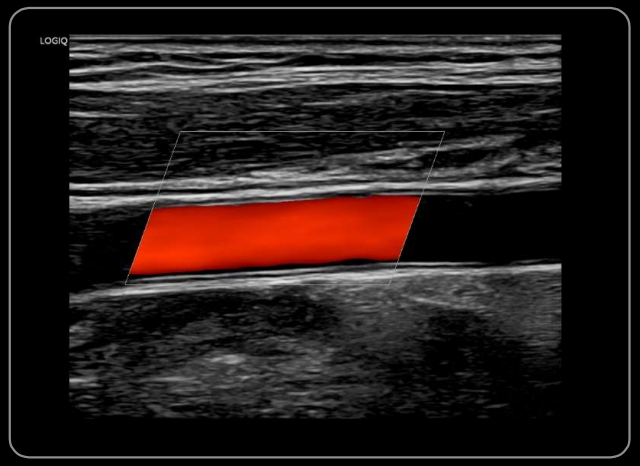
Edison

User guides system to the vasculature of interest and pushes a button



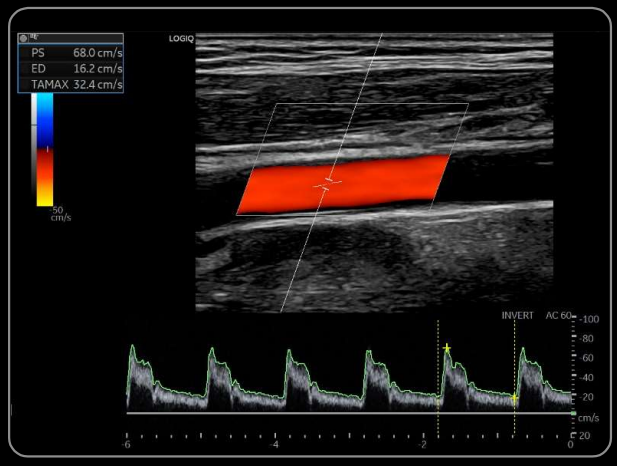
Benefit: Users scan as they normally would and control initiation of the algorithm

Doppler Assistant determines the location and direction of vessels



Benefit: Keystrokes are reduced as the color ROI and Doppler gate are automatically placed

Doppler Assistant determines the location and direction of vessels



Benefit: Results are appropriate for venous versus atrial exams even when both types of vessels are present

Manual view classification

Automated structure detection and classification

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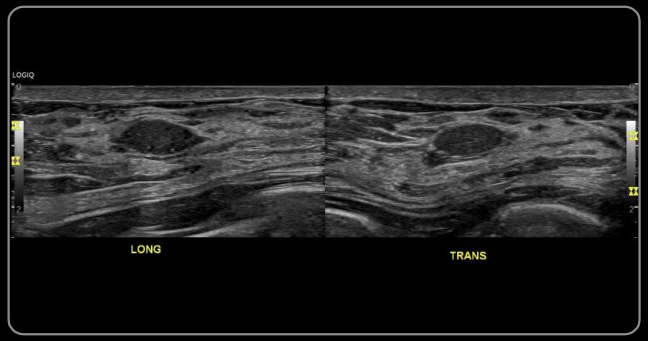
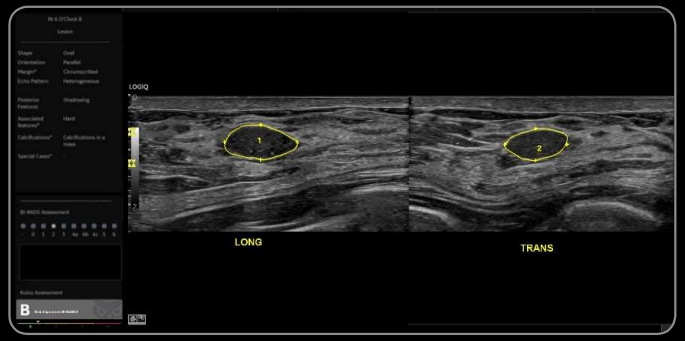
Breast Assistant, powered by Koios DS™*

Automatically provides an AI-based quantitative risk assessment that aligns to a BI-RADS® category

In Breast Assistant:

- Measure the lesion (either manually or with Auto Contour)
- Select the “Koios” button to analyze the image
- In 2 seconds or less, a quantitative color-coded confidence scale is generated that includes the Likelihood of Malignancy (LoM)





Benign breast mass, L3-12-RS

Designed to increase clinical confidence and reduce patient anxiety

*Not all products or features are available in all geographies. Check with your local GE HealthCare representative for availability in your country.

Koios DS is a trademark of Koios Medical. BI-RADS is a trademark of the American College of Radiology.

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Breast Assistant, powered by Koios DS™*

Automatically provides an AI-based quantitative risk assessment that aligns to a BI-RADS® category:

- Based on machine learning
- Uses a proprietary AI algorithm that includes >400,000 clinical breast lesion images
- One button click to analyze
- A color-coded confidence scale generates a likelihood of malignancy (LoM) aligned to the appropriate BI-RADS category
- Results on scanner
- Select the “Koios” button to analyze the image
- Available in two seconds, or less
- Based on machine learning

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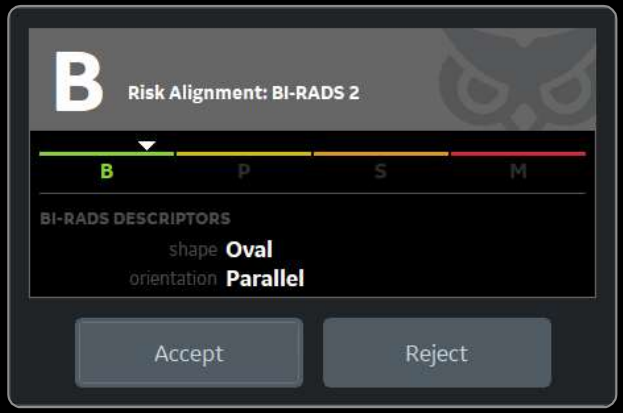
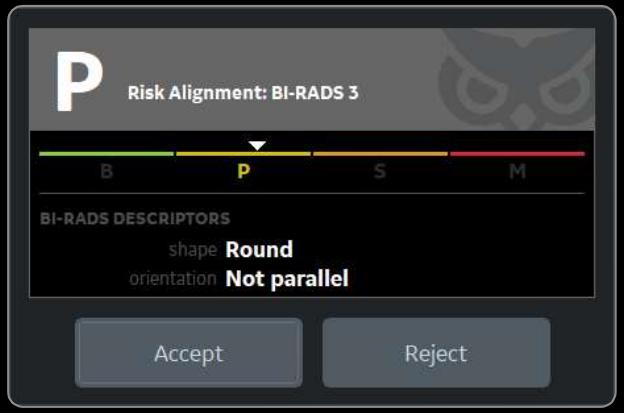
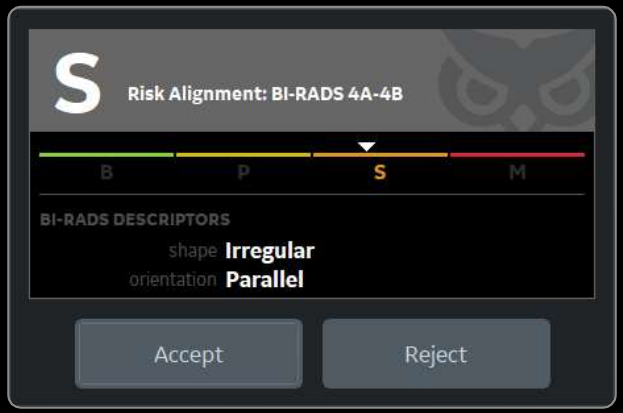
Breast Assistant, powered by Koios DS™*

Analysis return examples

B = Benign
P = Probable Benign
S = Suspicious
M = Malignant







*Not all products or features are available in all geographies. Check with your local GE HealthCare representative for availability in your country.
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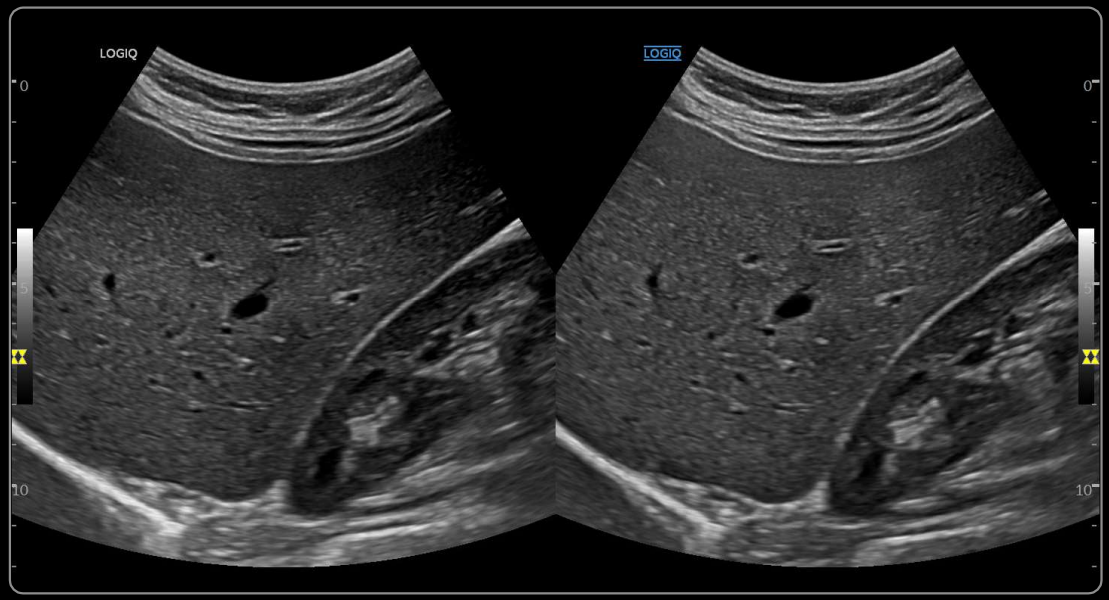
Continuous Tissue Optimization (CTO)

Delivers continuously optimized images with incredible uniformity from near to far field



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Patient-centric diagnosis

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Traditional ultrasound

Rigid assumptions about how sounds interact with the body

- Speed of sound is constant (1,540 m/s)
- Sound attenuation is constant
- Ultrasound beam is pencil shaped
- Vessels are straight
- Blood flow is laminar

Looking at the body as a phantom

Reality is not so simple:

- Sound attenuation and velocity vary
- Ultrasound beam is a volume
- Vessels are tortuous
- Blood flow can be turbulent

Simplifying assumptions can lead to:

- Poor image quality
- Distortion of image geometry
- Lots of adjustments to optimize images

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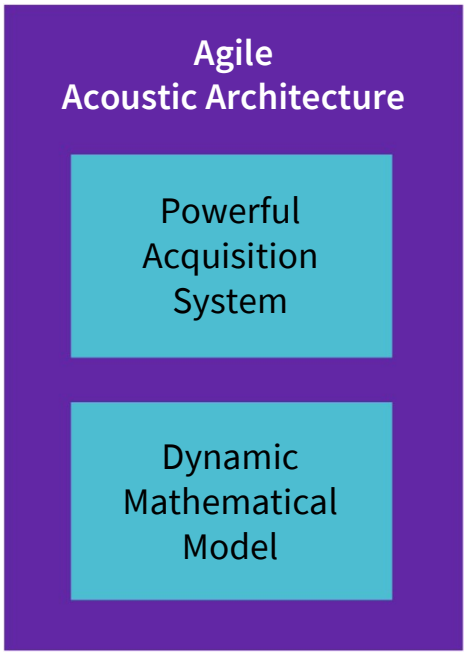
Agile Acoustic Architecture

- Flexible clinically-based mathematical models of the body
- Dynamically optimizes image acquisition for every body type
- Including the reality of body types
- Speed of sound is variable: 1450-1560 m/s
- Sound attenuation varies based on tissue type
- Ultrasound beam is dynamic



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P-Agile Acoustic Architecture

Agile Architecture

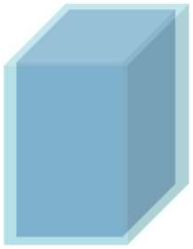
Leadership core technology for advanced clinical applications

Migration of technology

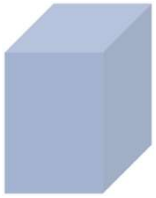
P-Agile Architecture

Compact size and technology to fit P-series customers workflow

Agile System



P-Agile System



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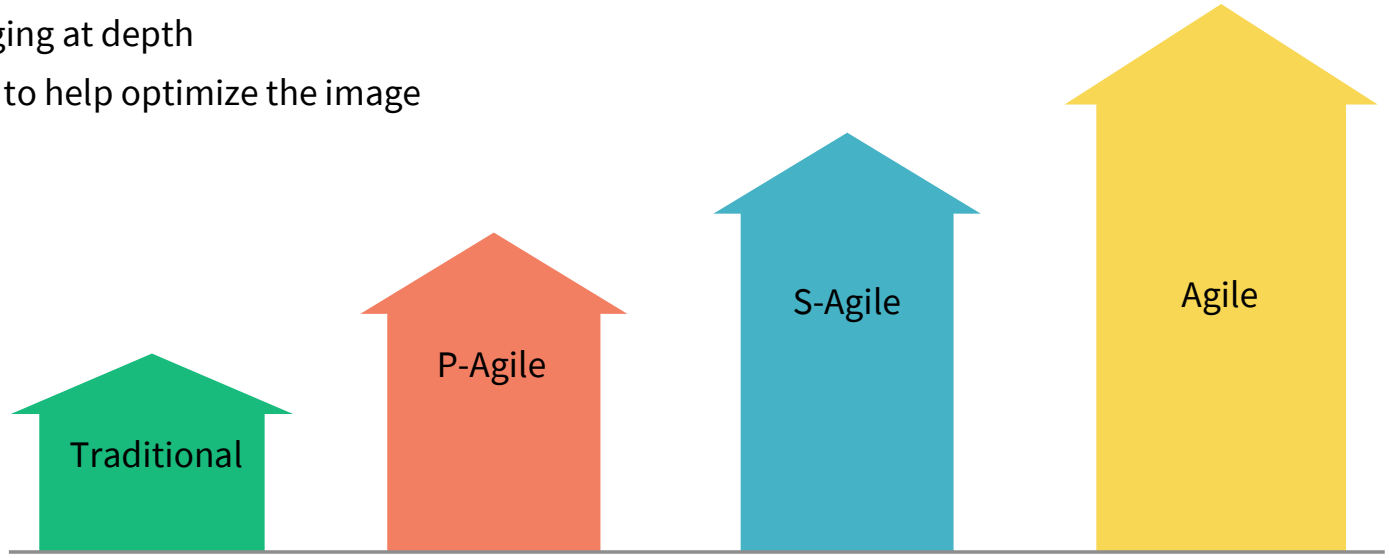
Agile Acoustic Architecture

Helping improve your diagnostic confidence

Clinical benefits

- Image uniformity
- Spatial resolution
- High frequency imaging at depth
- Reduced keystrokes to help optimize the image



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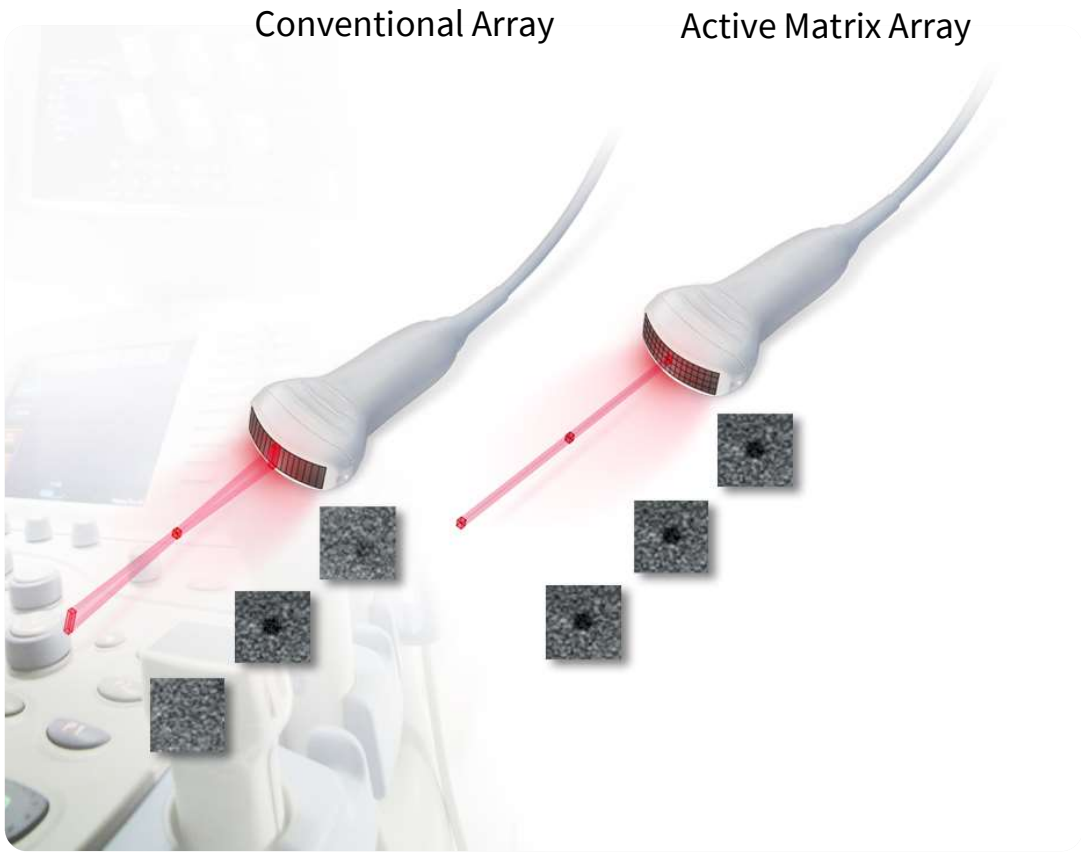
LOGIQ™ P Series probes

Innovative technologies

ML6–15-RS

High frequency linear probe

- Matrix arrays provide multiple rows of crystals, allow focusing in the near, mid and far field
- Great spatial resolution and image uniformity from near to far field
- Footprint: 50 mm
- Ultra-high Doppler & color frequency for excellent slow flow sensitivity



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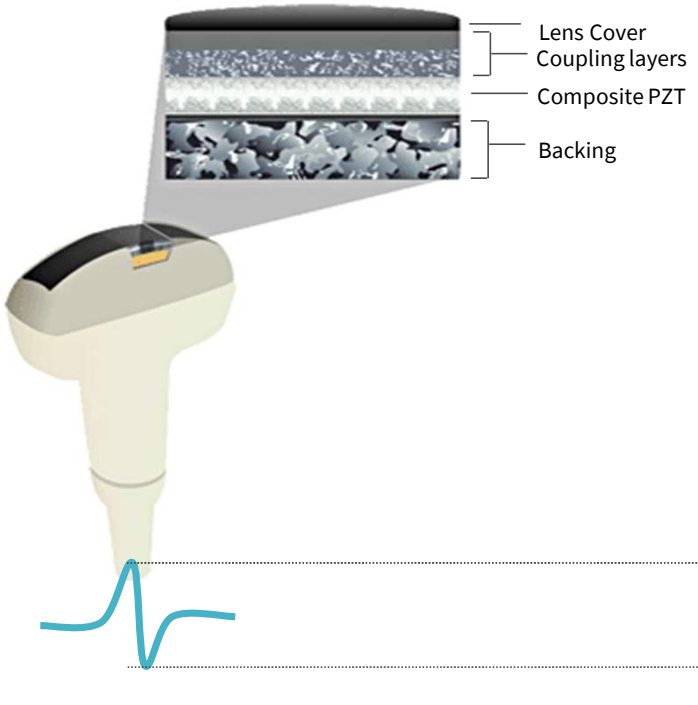
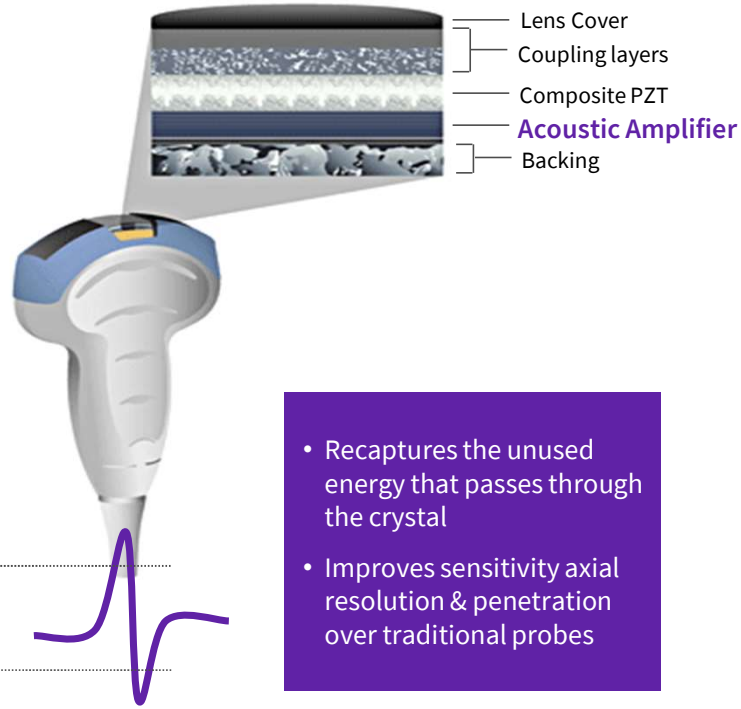
LOGIQ™ P Series probes

Acoustic Amplifier

Traditional Technology



Acoustic Amplifier Technology



- Recaptures the unused energy that passes through the crystal
- Improves sensitivity axial resolution & penetration over traditional probes

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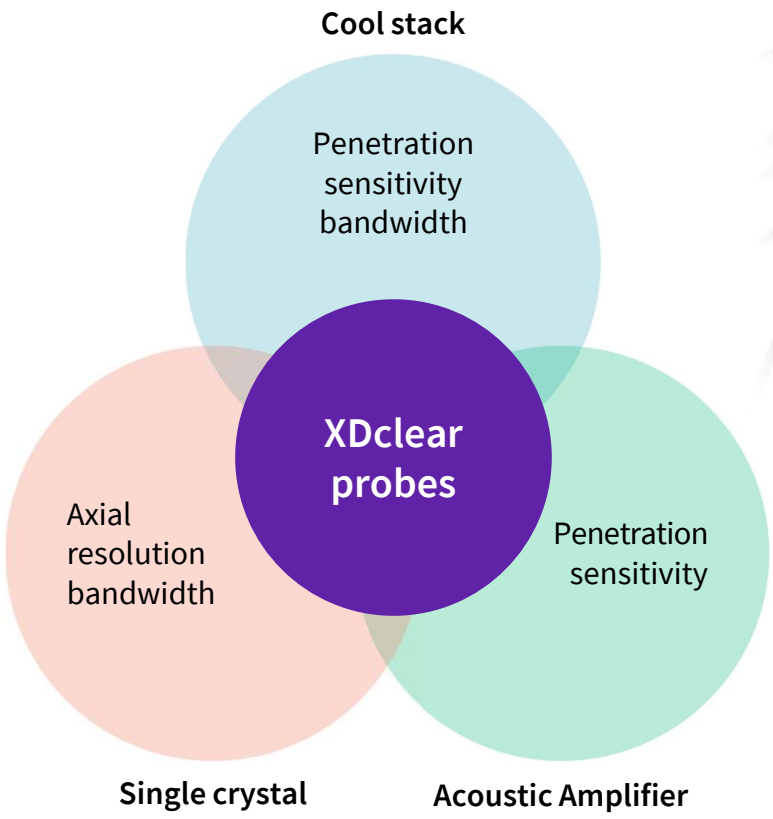
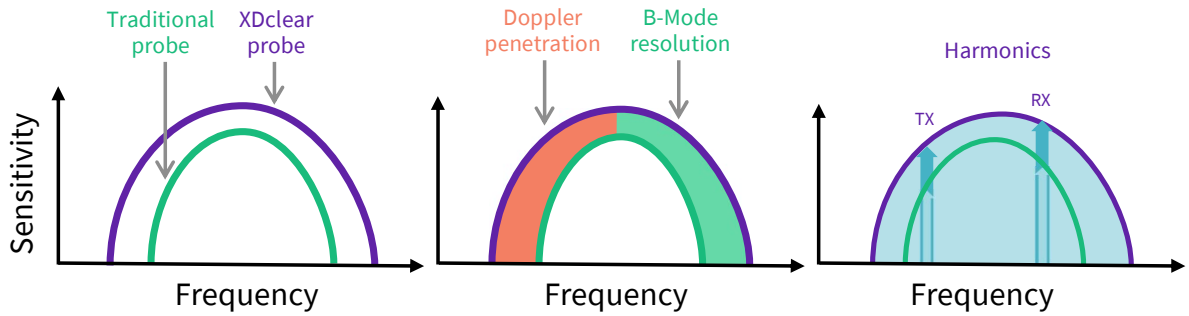
XDclear™

Extended to more probes





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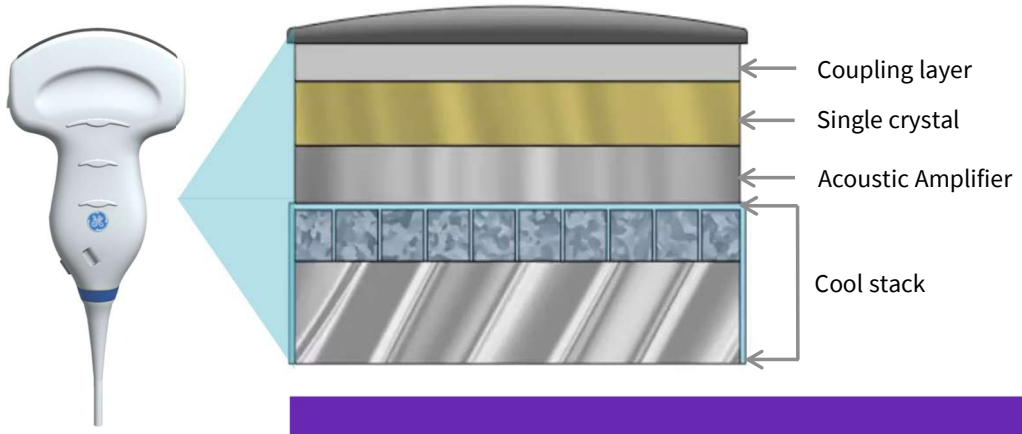
XDclear™ probes

Cool stack
Penetration, sensitivity, bandwidth

Single crystal
Axial resolution, bandwidth

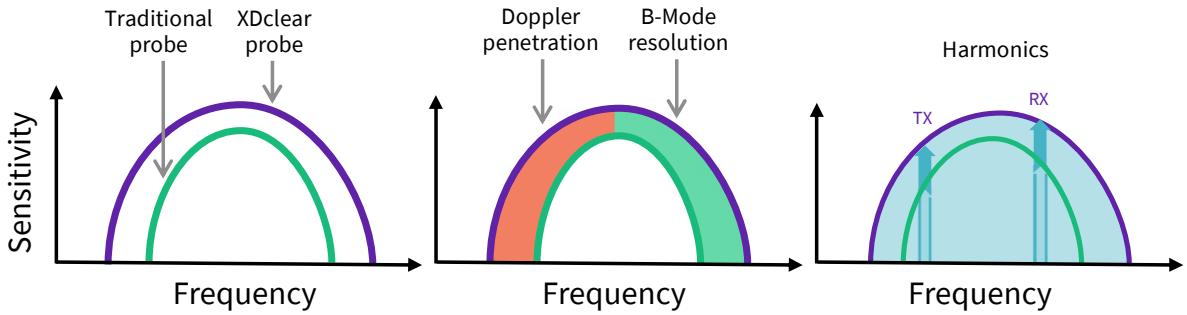
Acoustic Amplifier



Single crystal: Advanced piezoelectric material that delivers high quality acoustic signal

Acoustic Amplifier: Innovative design that captures and redirects the unused energy that passes through the crystal

Cool stack: Patented technology integrated into the transducer's internal architecture that relieves inherent heat generation that can otherwise reduce sensitivity and penetration



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LOGIQ™ P10 XDclear™ – Probe line up

Addressing a wide range of patients

Abdominal
C1-6-D, C2-7-D, C1-5-RS, C3-10-D, M5Sc-RS, 3Sc-RS, RAB2-6-RS, 9L-RS, L3-12-RS, L3-9i-RS

Small Parts
ML6-15-RS, L4-12t-RS, 12L-RS, L8-18i-RS, L3-12-RS, 9L-RS, L6-12-RS, L10-22-RS, C1-6-D, C1-5-RS

Vascular
C1-6-D, C1-5-RS, C3-10-D, C2-7-D, 10C-D, ML6-15-RS, 9L-RS, L4-12t-RS, 12L- RS, L3-12-RS, L8-18i-RS,L6-12-RS, P2D, P6D, P8D

OB/GYN
RAB2-6-RS, C1-6-D, C1-5-RS, IC9-RS, E8C-RS, E8CS-RS, RIC5-9A-RS, 9L-RS, L3-12-RS

Cardiac
M5Sc-RS, 3Sc-RS, 6S-RS, 12S-RS, 6Tc-RS, P2D

Breast
ML6-15-RS, L4-12t-RS, 12L-RS, L3-12RS, 9L-RS, L6-12-RS, L8-18i-RS

Pediatrics/Neonatal
C3-10-D, 10C-D,C2-7-D, 8C-RS, 6S-RS, 12S-RS, ML6-15-RS, L8-18i-RS, L4-12t-RS, 12L-RS, L3-12RS, 9L-RS, C1-6-D, C1-5-RS

Urology
C1-6-D, C1-5-RS, E8CS-RS, RIC5-9A-RS, BE9CS-RS, IC9-RS, L3-12-RS, ML6-15-RS, 12L-RS

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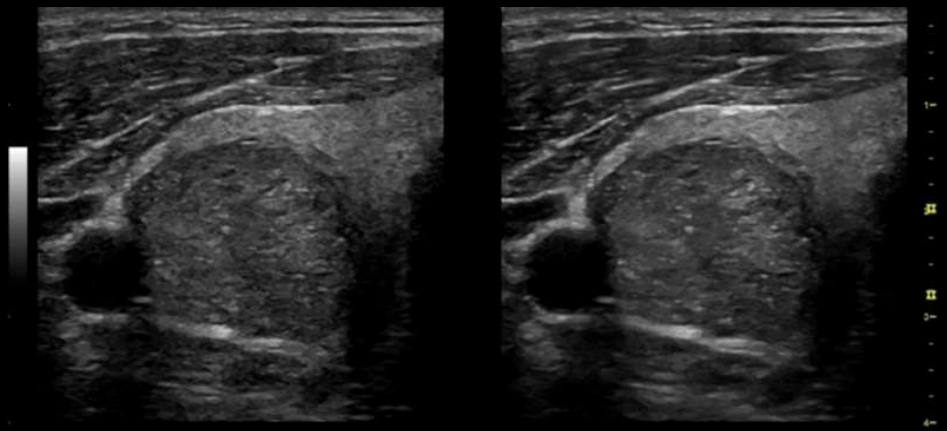
CrossXBeam™
Spatial compounding imaging

- Provides 3, 5, 7 of spatial compounding
- Live side-by-side dual view display
- Compatible with:
  - Color Mode
  - PW
  - SRI-HD
  - Coded Harmonic Imaging
  - Virtual Convex



Help increase clinical confidence in all imaging modes

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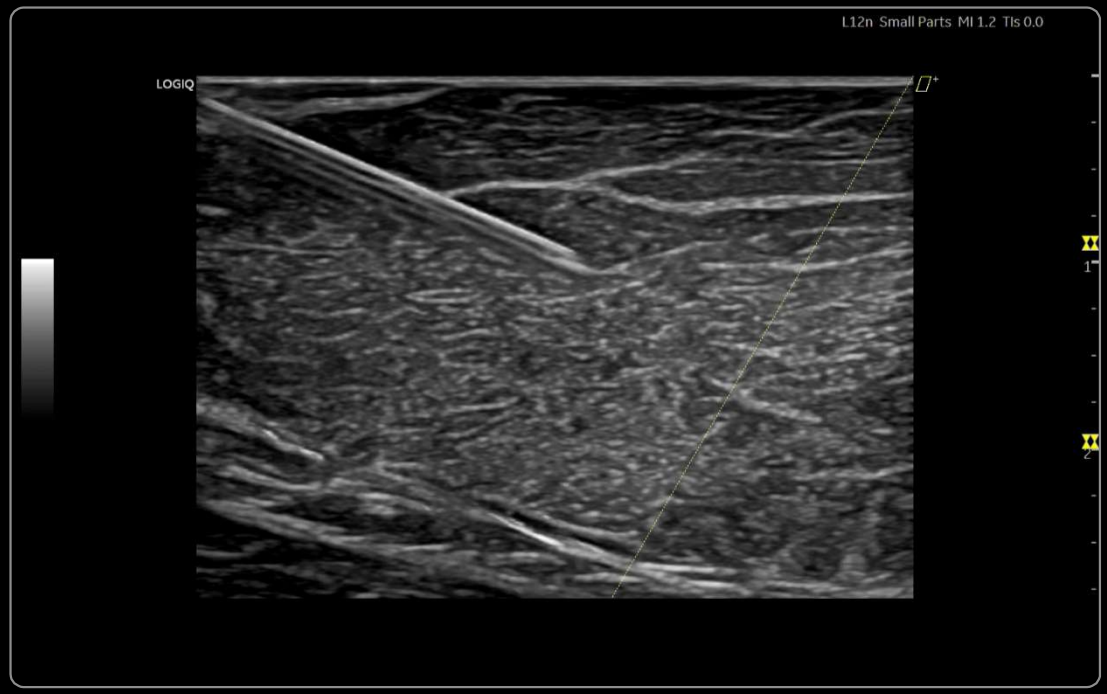
B-Steer+

B-Steer+[1] enables enhanced visualization of the needles structure during interventional procedures, helping improve user confidence and exam accuracy.

Highlights:

- Up to 8 selectable steering angles available (4 each direction)
- Separate gain control for needle reflection
- Available on all linear and convex probes
- Quick one-button operation
- Dynamic FOV
- Needle thickness



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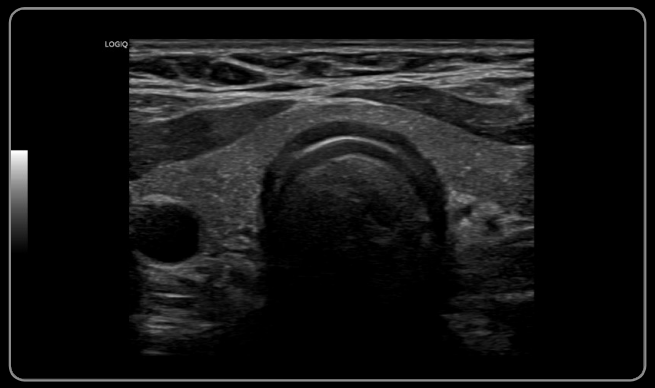
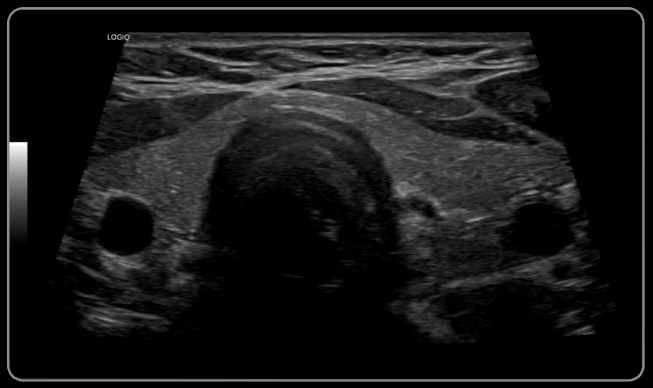
Virtual Convex

- Provides a convex field of view
- 20% increase in image size
- Compatible with CrossXBeam™
- Available on linear and phased array probes



No VC thyroid



VC thyroid

View large anatomy in greater detail

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Contrast Imaging[1,2]

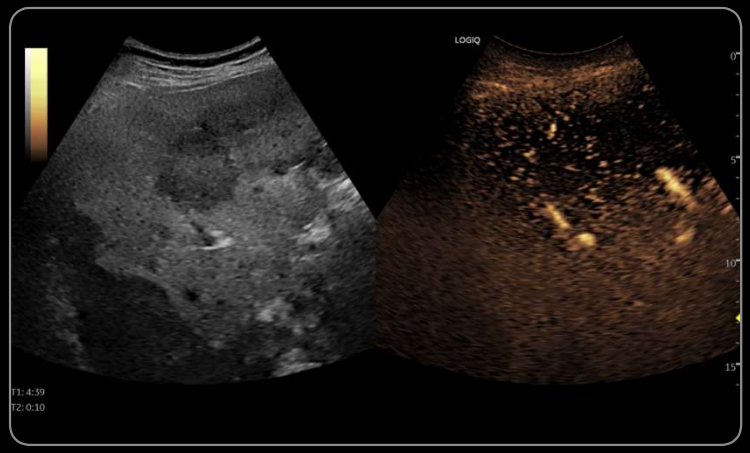
Amplitude Modulation Technique
- Great penetration and contrast sensitivity
- Excellent tissue suppression
- High image uniformity

Hi-Res Technique
- Superb spatial and temporal resolution

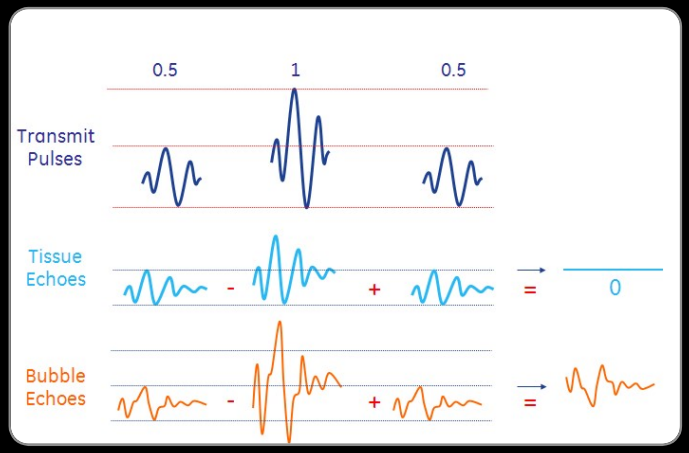
Imaging modes
- Dual or single display
- Hybrid contrast
- Accumulation
- 'Easy 3D' CEUS[1] imaging

Features
- Dual caliper, dual timer
- TIC Q-analysis package
- Retrospective/prospective storage
- One button background storage

Supported probes
- BE9CS-RS, C1-5-RS, C1-6-D, C2-7-D, 9L-RS, 3Sc-RS, IC9-RS, M5Sc-RS



C1-5 CEUS



1. The LOGIQ™ P10 XDclear™ has been designed for compatibility with most commercially available ultrasound contrast agents. Availability of these agents is subject to government regulation and approval. Contrast imaging should be performed within the approved indications for use of the contrast agent used in the exam.
2. Refer to the LOGIQ P10 XDclear Product Data Sheet for a list of purchasable options.

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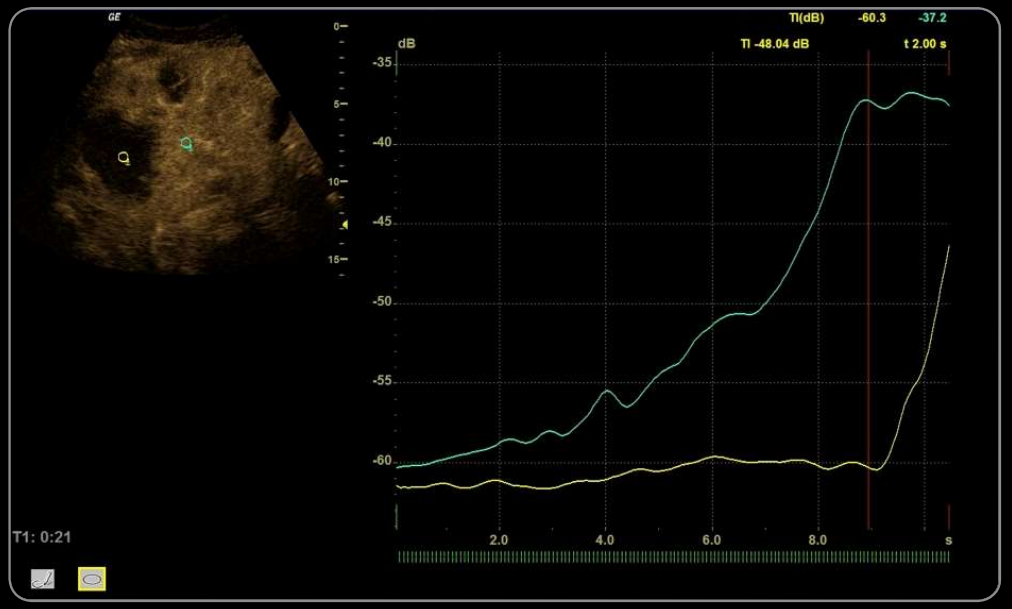
Contrast Imaging[1,2]

Time Intensity Curve (TIC)

- Raw data processing for contrast uptake
- Q-Analysis of both compressed and uncompressed data
- Up to 8 selectable ROI’s
- Up to 10 parameters
- Ellipsoid or manual ROI tracing
- Anchor tracking function
- Automated motion tracking
- Automatic enabling/disabling of frames
- Trace export in ASCII format



TIC/Q-Analysis

1. The LOGIQ™ P10 XDclear™ has been designed for compatibility with most commercially available ultrasound contrast agents. Availability of these agents is subject to government regulation and approval. Contrast imaging should be performed within the approved indications for use of the contrast agent used in the exam.
2. Refer to the LOGIQ P10 XDclear Product Data Sheet for a list of purchasable options.

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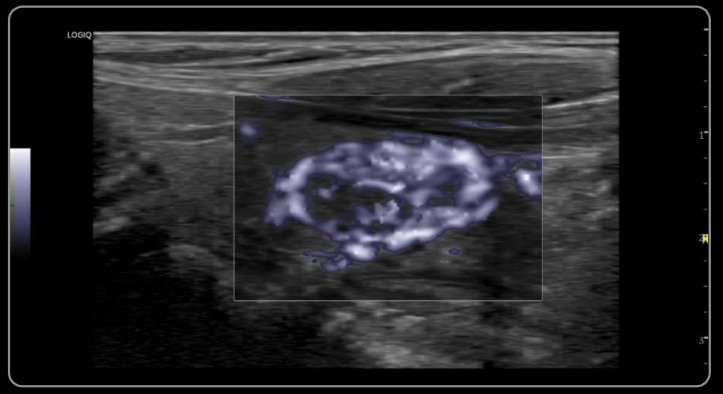
B-Flow/B-Flow Color

A GE HealthCare innovation[1]

- Does not use Doppler processing
- Based on GE HealthCare patented coded technology
- Display real hemodynamics
- Direct visualization of blood reflectors

True hemodynamics and anatomy

- Dynamic appearance of flow
- Minimal tissue overwrite compared to Color Flow
- Excellent control of flash artifacts compared to Color Flow
- Clearly visible background image
- Independent mode control



1. Refer to the LOGIQ™ P10 XDclear™ Product Data Sheet for a list of purchasable options.
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B-Flow[1]/B-Flow Color

Benefits over Doppler

- No tissue overwrite
- No impact on frame rate
- Less angle dependency
- High resolution Imaging
- Background image clearly visible

Available on probes

- 9L-RS
- 12L-RS
- ML6-15-RS
- L8-18i-RS
- C1-5-RS
- C1-6-D
- C2-7-D
- C3-10-D
- 8C-RS
- L6-12-RS
- L4-12t-RS
- L10-22-RS
- L3-9i-RS
- L3-12-RS
- E8CS-RS
- BE9CS-RS
- 10C-D
- IC9-RS

Neonatal head B-Flow, 9L-RS

B-Flow Color ICA, L6-12-RS

1. Refer to the LOGIQ™ P10 XDclear™ Product Data Sheet for a list of purchasable options.
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Hybrid B-Flow

Hybrid B-Flow[1]

- Visualization Modes – Toggle between three Modes: B-Flow; Dual B-Flow (simultaneous, side-by-side displays of B-Mode reference image and B-Flow); and Hybrid B-Flow (reference B-Mode image overlaid on the B-Flow for improved detail and less noise)
- Available with Easy 3D, PW, Accumulation Mode, and ON/OFF tissue background information

B-Flow Hybrid Liver, C1-5-RS

B-Flow Hybrid Jugular Vein, L3-12-RS

1. Refer to the LOGIQ™ P10 XDclear™ Product Data Sheet for a list of purchasable options.
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HD Color

HD Color

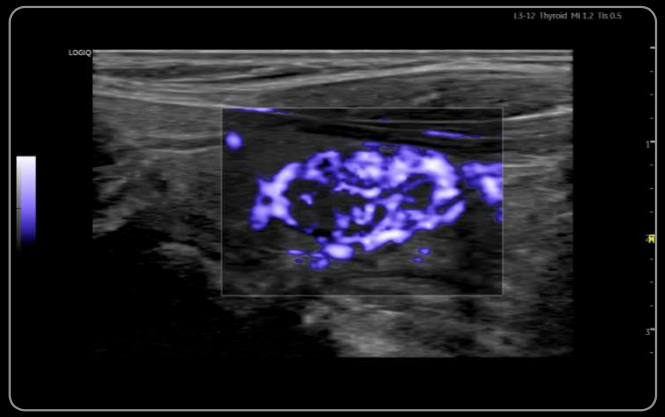
New functionality within B-Flow Color – offers sensitivity in visualizing small vessels and slow flow to enhance diagnostic confidence in:

- Venous, liver, and renal imaging
- Musculoskeletal imaging
- Pediatric imaging
- Small parts imaging

Probe availability:

- C1-5-RS
- C1-6-D
- ML6-15-RS
- 12L-RS
- L3-12-RS
- L4-12t-RS

B-Flow HD Color obstetric, C1-5-RS



B-Flow HD Color thyroid, L3-12-RS

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Elastography – Clinical applications

As a non-invasive technique to help clinicians characterize abnormal tissue, ultrasound elastography offers exceptional versatility:

Chronic liver disease

- Evaluation of liver fibrosis
- Monitor response to therapy
- Assist in patient management decisions

Oncology

- Evaluation of soft tissue lesions, including breast, small parts and urology
- Soft tissue lesion classification
- Surgical planning

Musculoskeletal

- Provide additional information for diagnosis of tendinopathy, tendinosis, synovial hypertrophy, tears, and other conditions
- Assist in injury management from early diagnosis (e.g., acute muscle injury) to treatment response

Gynecology

- Additional information to assess cervical strength to help identify women at risk of preterm birth

Urology

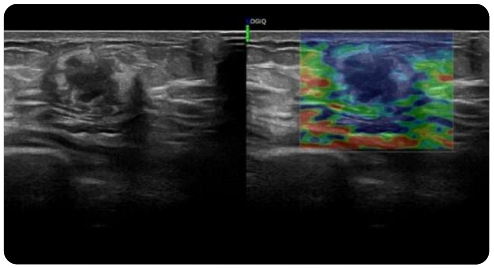
- Assists in prostate cancer identification by improving localization of abnormal foci thus enabling more targeted biopsies

Breast

- Useful in the detection and characterization of breast disease
- Well-suited for dense breast patients
- Provides a quantitative measurement of tissue elasticity

Thyroid

- Useful in nodules with indeterminate US or cytologic characteristics
- Well-suited to follow up on lesions



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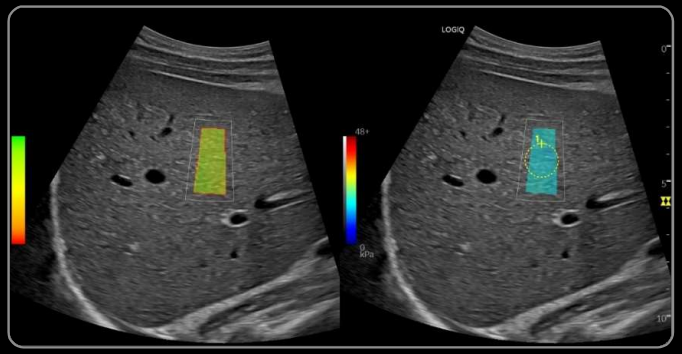
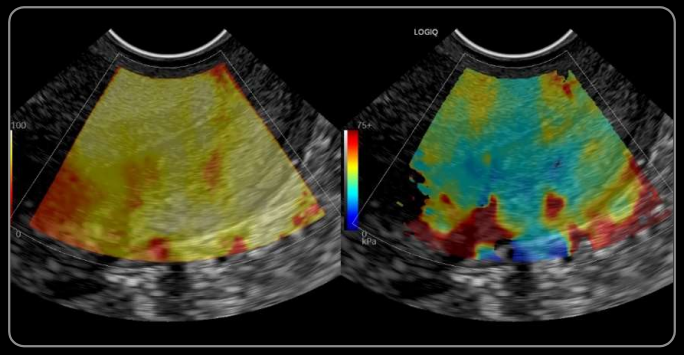
2D Shear Wave Elastography

Provides a quantitative estimate of tissue elasticity and displays this measurement in color-coded elastograms. Ultrasound imaging and 2D Shear Wave Elastography can be combined in a single exam.

- Assists in a growing range of applications, including chronic liver disease, and diseases of the breast, musculoskeletal (MSK) and small parts
- Semi-automatic measurements provide quick, quantifiable information
- Multiple measurement regions of interest (ROIs) help increase exam speed
- Probe availability:
  - C1-6-D
  - C1-5-RS
  - L3-12-RS
  - ML6-15-RS
  - 12L-RS
  - IC9-RS



2D Shear Wave Elastography with Quality Indicator, liver, C1-6-D



2D Shear Wave Elastography with Quality Indicator, cervix, IC9-RS

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Strain Elastography[1]

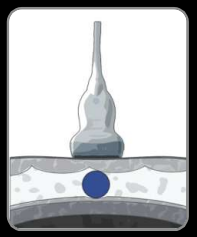
Strain imaging technology requiring a light manual compression or patient breath to perform tissue deformation. A qualitative and Semi-Quantitative[2] solution.

Highlights:
- High sensitivity and persistence
- Consistent pattern
- User selectable color maps
- Dual measurements
- User support by pressure quality bar and graph

Shear Wave elastography
- Focused burst of acoustic energy to perform tissue deformation through a comb-push excitation
- Color coded elastogram and quantitative measurements
- Focus: Chronic liver disease, oncology

Available on the following probes:
- C1-5-RS
- C1-6-D
- ML6-15-RS
- 9L-RS
- 12L-RS
- L6-12-RS
- L4-12t-RS
- L3-12-RS
- E8CS-RS
- BE9CS-RS
- IC9-RS

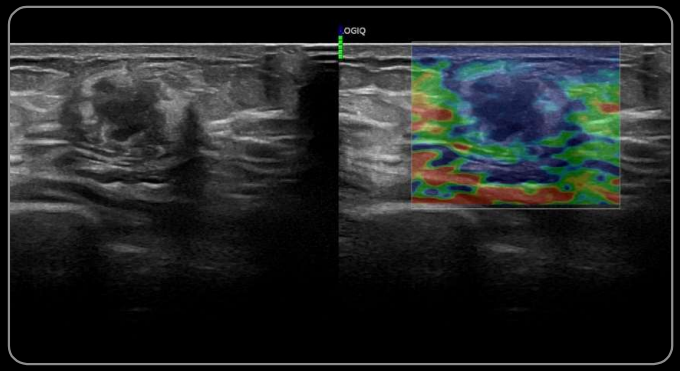
This soft lesion deforms under pressure.



This hard lesion does not deform under pressure.

$$\text{Elasticity} = \frac{\text{Stress}}{\text{Strain}}$$

Stress = axial force applied to lesion
Strain = tissue deformation due to applied stress



1. Refer to the LOGIQ™ P10 XDclear™ Product Data Sheet for a list of purchasable options.
2. Not cleared by the U.S. FDA and not for sale in the USA.

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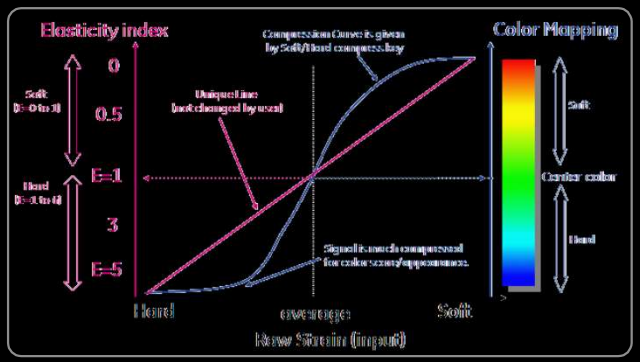
Strain Elastography[1]

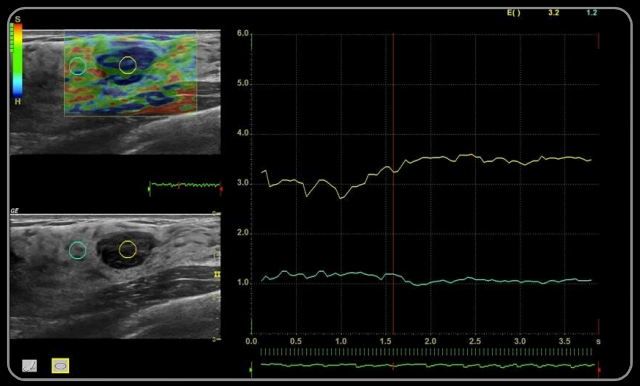
Semi-Quantification[2]

E-Index
- Selected ROI's elasticity value
- Round or manual tracing of ROI
- E-index range from 0 – 6
- Based on GE HealthCare Raw Data processing

E-Ratio
- Calculated E-Index between ROI's (up to 8)
- Representing relative stiffness

Q-Analysis over multi-frame acquisition
- Automatic skip of low-quality frames
- Anchor function
- Trace export in ASCII format





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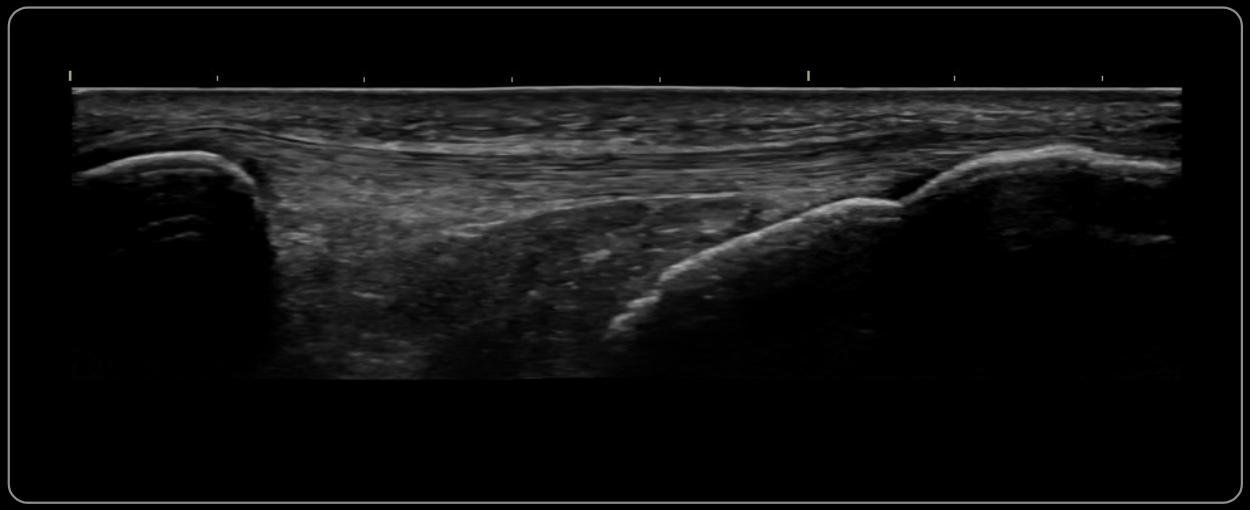
LOGIQ™ View

LOGIQ View[1] allows a real-time representation of long anatomical areas (e.g., Patellar Tendon)

- Available on all probes
- Combine with CrossXBeam™ for linear probes and convex probes
- Auto detection of scan direction
- Up to 60 cm scan length



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3D/4D ultrasound[1]

GE HealthCare Volume Imaging with 3D/4D dedicated probe

Highlights:
- Easy, quick, reproducible
- High volume data accuracy
- Tint Render Map
- Comprehensive settings

Volume Modes:
- Multi-planar Imaging
- Surface rendering
- TUI – Tomographic Ultrasound Imaging
- VCI – Volume Contrast Imaging
- Vocal– Volume Calculation
- STIC
- OmniView
- SonoRender*live*
- HD*live*™

Probe:
- RAB2-6-RS
- RIC5-9A-RS

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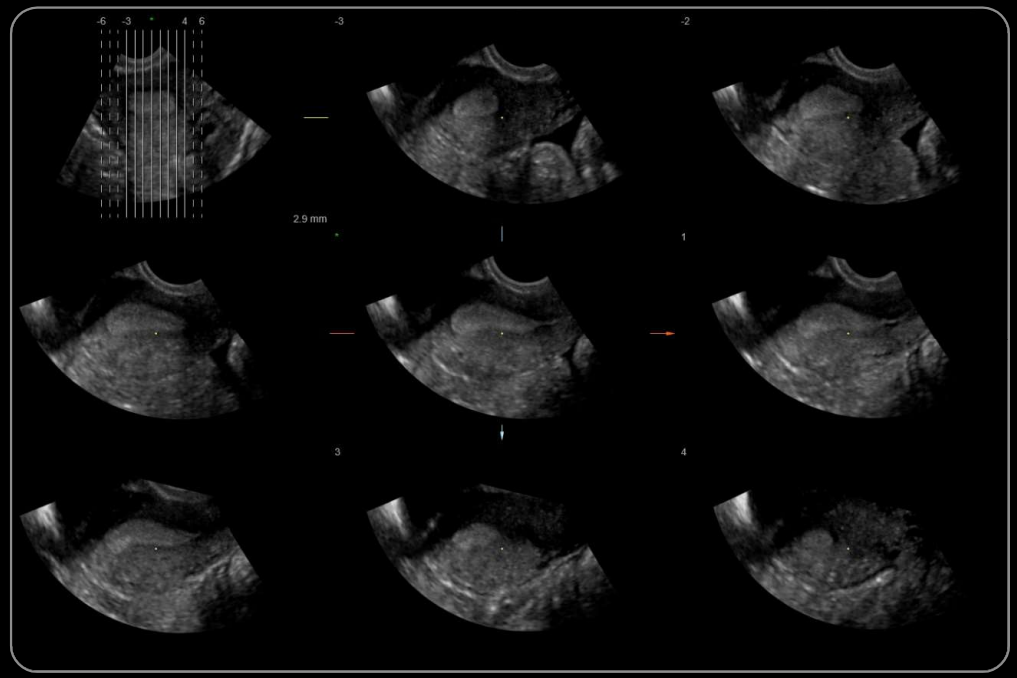
3D/4D ultrasound[1]

TUI – Tomographic Ultrasound Imaging

Visualization mode that presents data as parallel slices (planes) through acquired Volume dataset. It works with CFM/PDI and SRI-HD.

Highlights:

- Information consistent to CT & MR format
- 3D static with color
- Up to 9 slices, with user selectable distance (min 0.5 mm, step by 0.1 mm) and angle
- Top left held as reference image
- Works with SRI



Pelvic TUI

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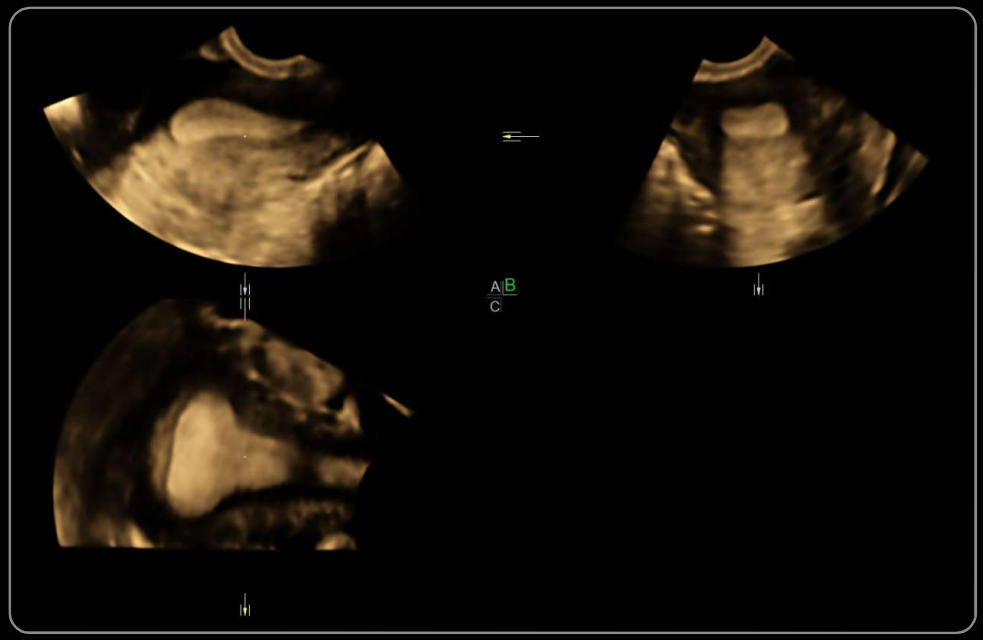
3D/4D ultrasound[1]

VCI – Volume Contrast Imaging

VCI is a volume acquisition technique enhancing B-Mode contrast resolution and speckle suppression.

Highlights:

- Help improve assessment of lesions size, margins and internal structures for comprehensive patient management
- 3D manipulation in A, B, and C planes



VCI uterus, RIC5-9A-RS

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3D/4D ultrasound[1]

Vocal

Vocal is a ‘Volume Computer-aided analysis’ based on a volume acquisition enabling fast and accurate volume calculations.

Highlights:

- Manual, semi-automatic or automatic borders definition
- Basic measurements as length, angle and area
- Easy corrections and contour modifications
- Can be used with any lesion or volume to measure

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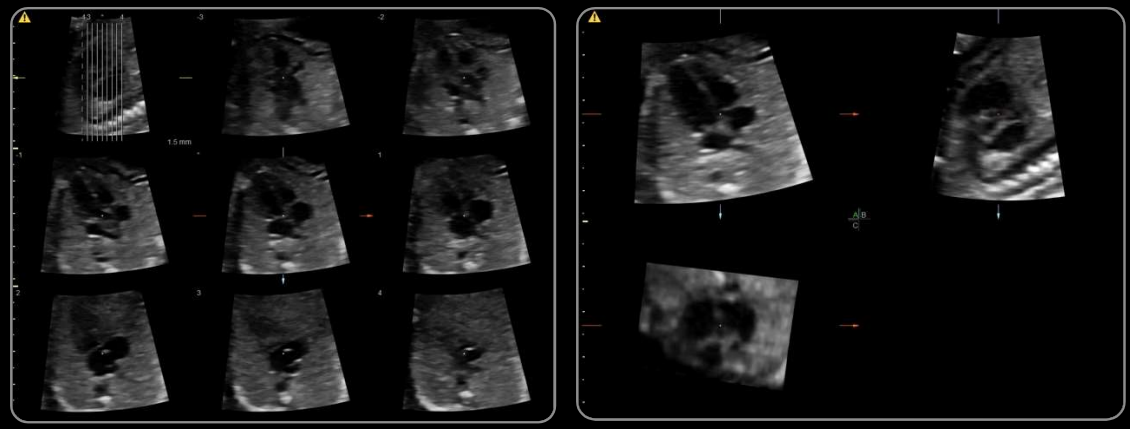
3D/4D ultrasound[1]
STIC

Spatio-Temporal Image Correlation (STIC) captures one fetal heart cycle in 3D cine.

Highlights:

- Adjustable acquisition time
- Use with Color Doppler or Power Doppler modes
- 3D manipulation in A, B, and C planes



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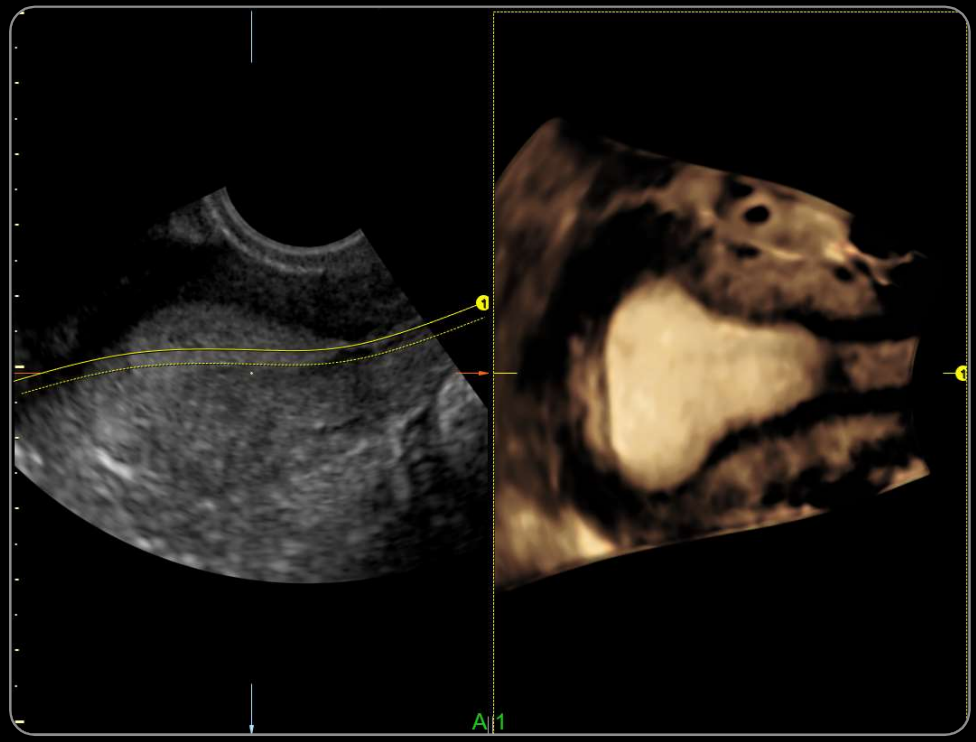
3D/4D ultrasound[1]

OmniView

OmniView is the “any-plane” function for 3D and 4D data

Highlights:

- Gives the ability to trace along any shape or structure
- Can be started from A, B, or C. Up to 3 planes can be displayed simultaneously



VCI OmniView, RIC5-9A-RS

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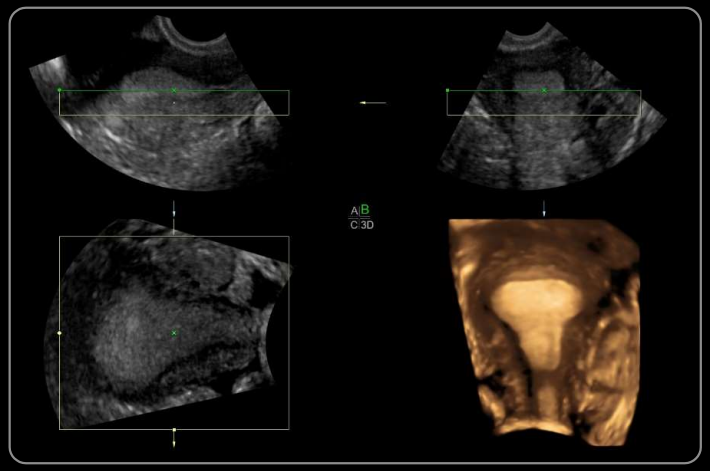
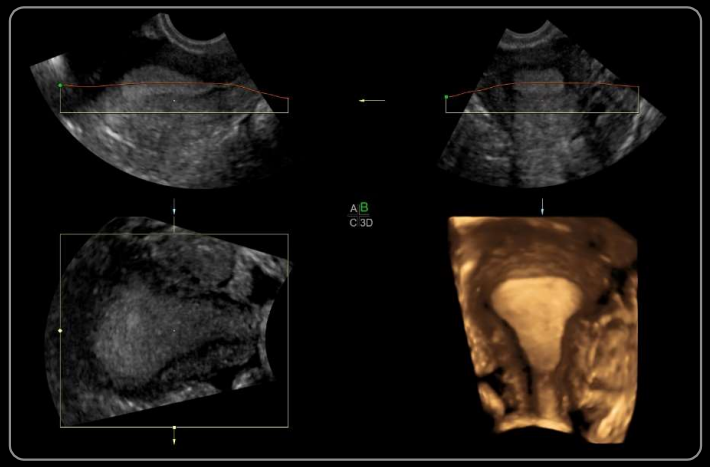
3D/4D ultrasound[1]

SonoRender*live*

- Automates render line placement in 3D/4D imaging
- Helps remove artifacts, improves rendered image without having to use the scalpel tool



SonoRender*live* off



SonoRender*live* on

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3D ultrasound[1]

HD*live*™

- Reveal a clinical perspective of fetal and female anatomy that brings anatomical realism to surface structures
- Utilizes a combination of advanced skin illuminating and shadowing techniques to expose possible hidden details for a deeper understanding of relational anatomy and developing structures

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Flow Quantification[1]

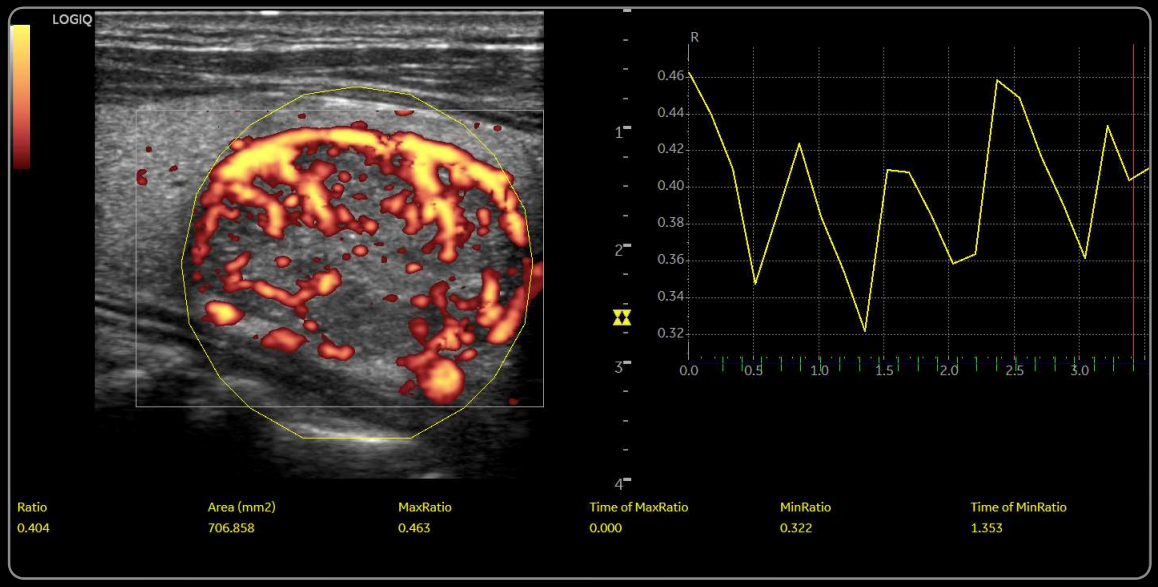
2D CFM/PDI Quantitative assessment of vascular feeding in a selected ROI

Highlights:

- Consistent, repeatable and objective measurement
- Can help in treatment planning and monitoring protocols
- Provides data to support outcome measurements

Features:

- Up to 8 selectable ROI's
- Analysis over 4/5 heartbeat cycles
- Automatic or manual ROI tracing
- "Save ROI" feature for monitoring
- Manual disabling & enabling of frames
- Export traces in ASCII format



QA analysis

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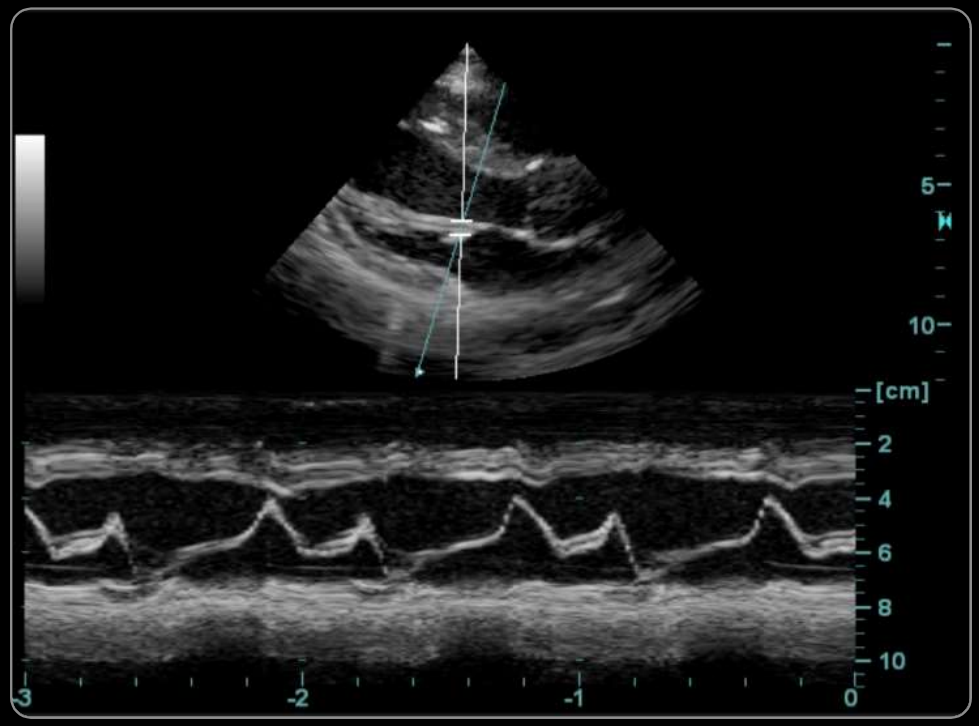
AMM – Anatomical M-Mode[1]

- M-Mode cursor adjustable at any plane to be vertical to myocardium
- Compatible with:
  - Live image
  - Stored image – Raw Data
  - Color Flow Mode



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Connectivity

Output ports

- USB
- Composite
- HDMI
- S-Video
- Ethernet

Network storage

- DICOM®
- SaveAs
- MPEGView
- Report Save As

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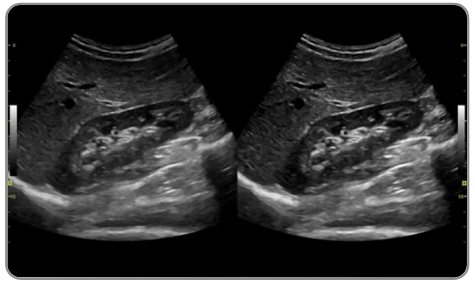
Auto Optimization

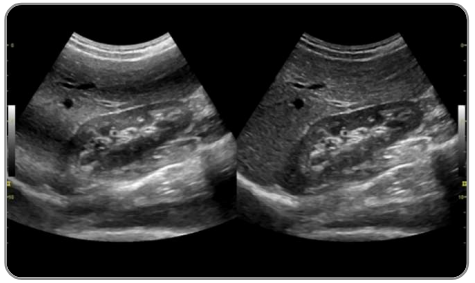
One button press

ATO
(Auto Tissue Optimization)



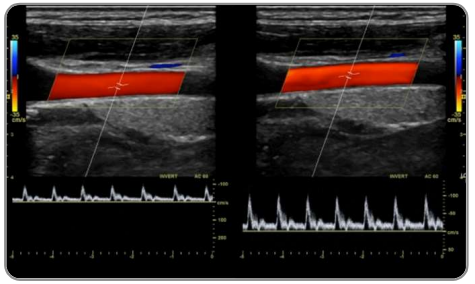
Optimize B-Mode image to help improve contrast resolution

Auto TGC



Continuous 2D auto TGC control

ASO
(Auto Spectral Optimization)



Baseline and scale (PRF)

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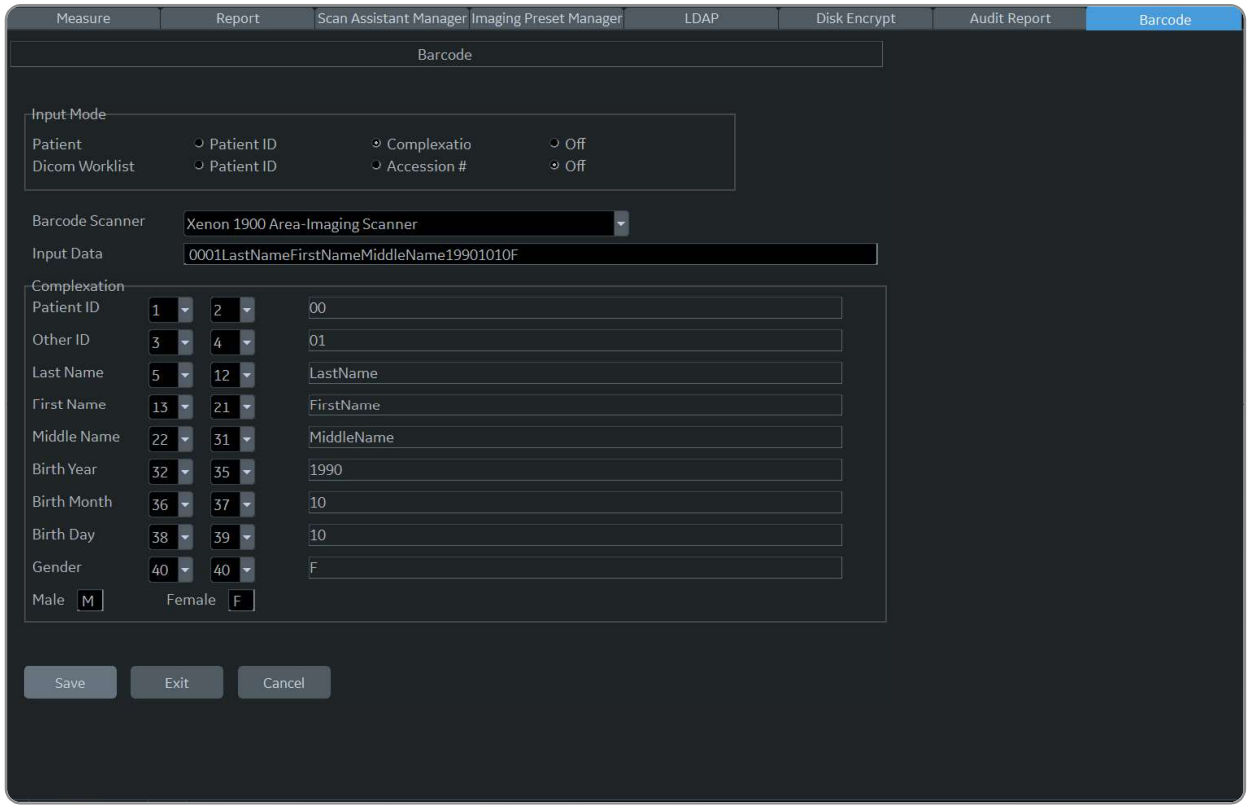
Barcode reader

Help streamline exams

Barcode reader helps to:

Simplify patient entry

0001LastNameFirstNameMiddleName19901010F



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Scan Assistant[1]

- The personal assistant to user's exam
- Up to 63% time reduction[2]
- Up to 87% keystroke reduction[2]
- Help increase exam consistency
- Compatible with LOGIQ™ E9, LOGIQ S8 and LOGIQ S7 workflows

Feature highlights

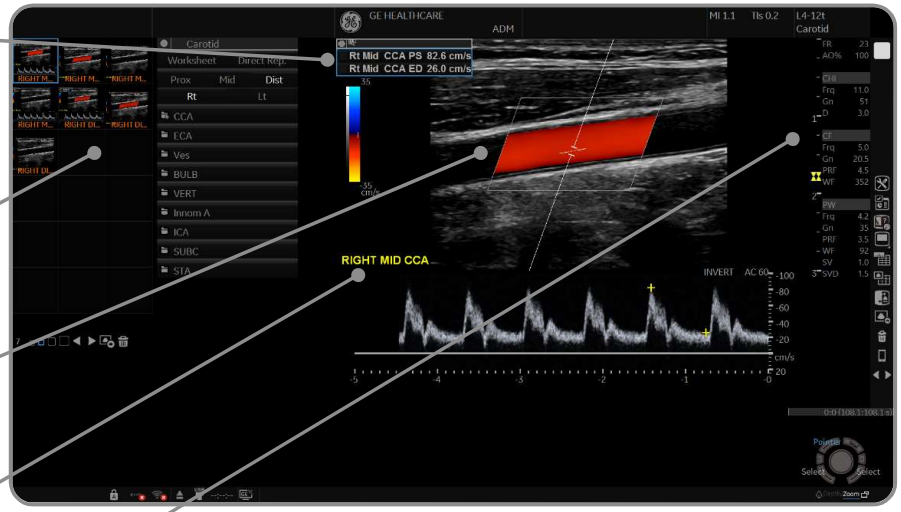
Initiates and completes user selected required measurements

Automatically reorders images to reader's preference

Automatically steers Color Doppler

Automatically inserts comments

Automatically sets up Imaging controls and modes



1. Refer to the LOGIQ P10 XDclear™ Product Data Sheet for a list of purchasable options.
2. Internal GE HealthCare engineering study using standardized protocols for an abdominal exam compared with prior version GE HealthCare LOGIQ P6 ultrasound system.

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Compare Assistant[1]

Help streamline comparison to prior exams

Opportunity

Many ultrasound exams are follow ups to prior ultrasound or other modality exams

Goal

Drive productivity for acquiring and reading the exam by designing a workflow that uses prior exam data

Result

A quick image comparison or a replicated prior exam

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Compare Assistant[1]

Help streamline comparison to prior exams

At the scanner…

- Easy access to past exam data on the scanner
- Side-by-side compare and store past exam image to today's image
- Set image setting of live scanning to match past exam image[2]
- Create entire new exam to match old exam

At the reading station…

Help reduce the time spent to find, open, sort, compare to prior exams

1. Refer to the LOGIQ P10 XDclear™ Product Data Sheet for a list of purchasable options.
2. Automated when LOGIQ P10 XDclear data is used.

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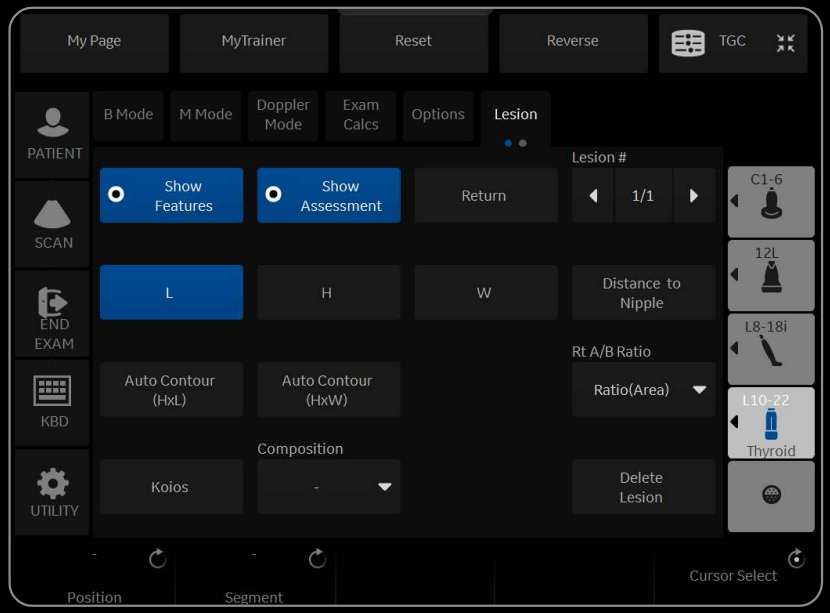
Breast Productivity[1]

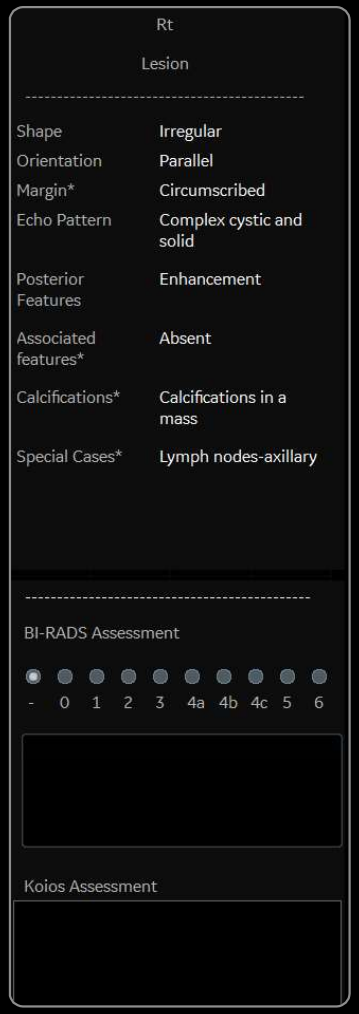
Measurement package

A dedicated breast-specific measurement package that allows user 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



Directly from BI-RADS lexicon



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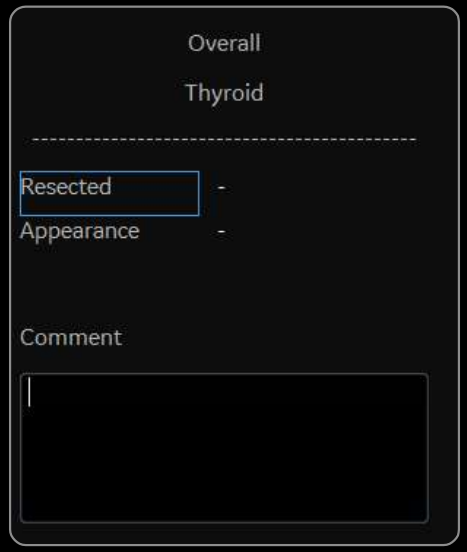
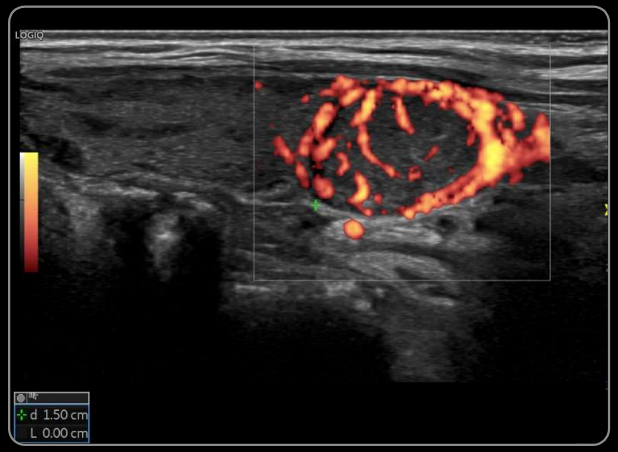
Thyroid Productivity[1]

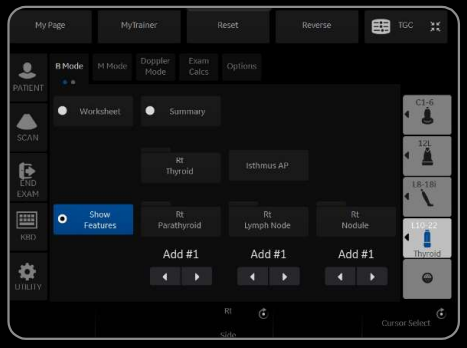
Measurement package

Thyroid-specific measurement package

- Enables labeling, measuring and describing nodules, lymph nodes and parathyroids
- Multiple measurements can be organized into a convenient worksheet and sends results via DICOM® SR
- TI-RADS® compatible







Show features

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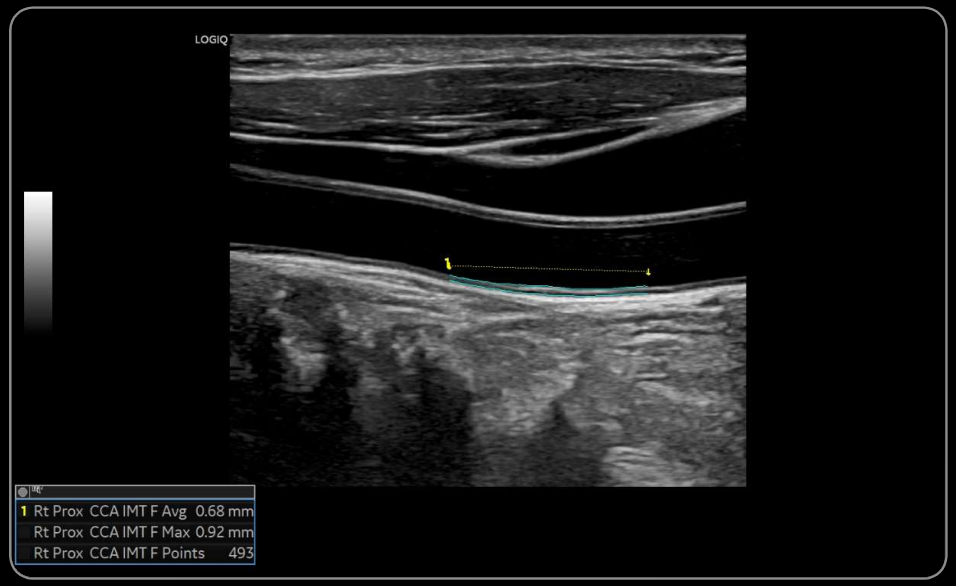
Auto IMT[1]

Auto IMT is an automated method of measuring the intima media thickness of the CCA or ICA from multiple samples across a user defined length.

- Simple and easy to operate
- Direct export of measurements to a worksheet and report page
- Including ECG trigger to help increase consistency and reliability
- Save offset distance and IMT measurement lengths to help increase reproducibility



An efficient, reproducible method of carotid artery analysis

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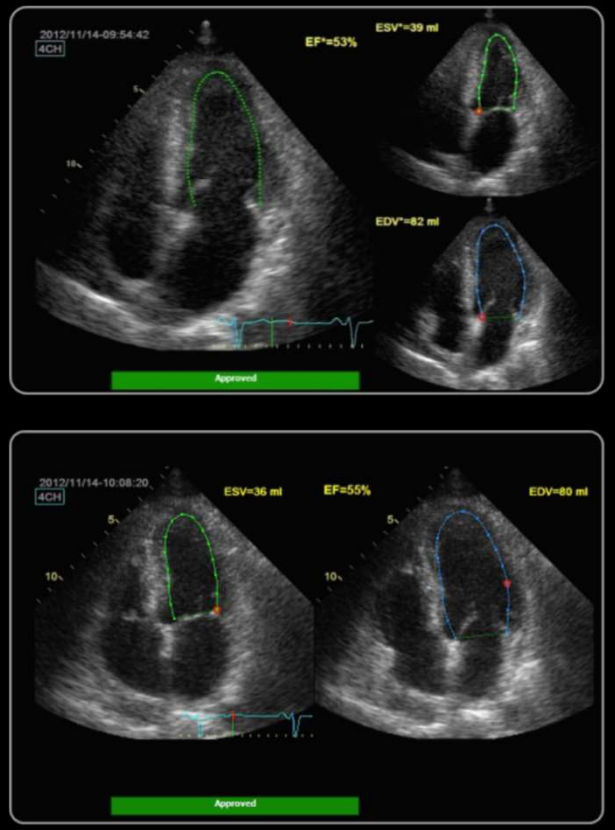
Auto EF[1]

Automated Ejection Fraction (AutoEF) is a semi-automatic measurement tool used for measurement of the global EF (Ejection Fraction).

- The AutoEF tool tracks and calculates the myocardial tissue deformation based on feature tracking on
- B-Mode cine loops
- AutoEF is performed on either one or both apical
- 4-chamber or 2-chamber views, in any order
- Result is presented as Ejection Fraction value for each view and average Ejection Fraction for the whole LV. All values are stored to the worksheet after the results are approved



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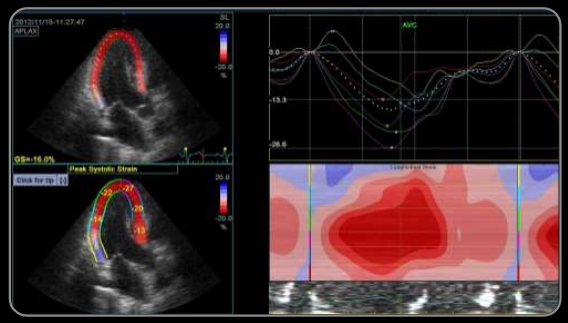
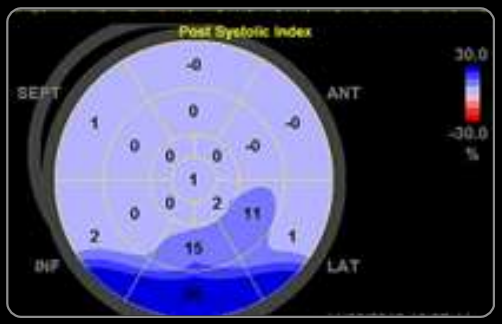
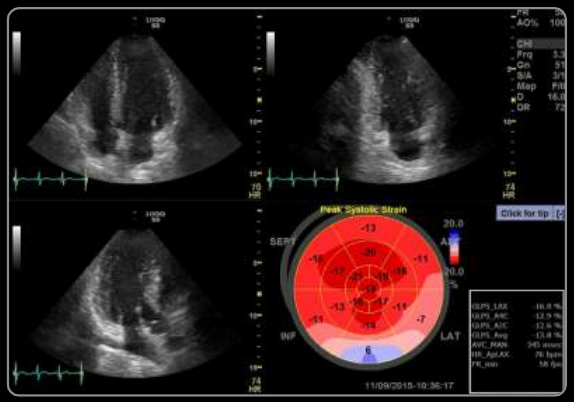
Cardiac Strain[1]

Cardiac Strain is the support tool for evaluation of the wall motion of the entire left ventricle or local region.

- Reduce exam time with easy workflow
- Wall motion tracing in 2D view from Apex (APLAX, 4-Ch, 2-Ch)
- Display strain graph, Parametric imaging and Anatomical M mode for each plane
- Bull's eye is provided from 3 plane
- Display Peak Systolic Strain and Post Systolic Index







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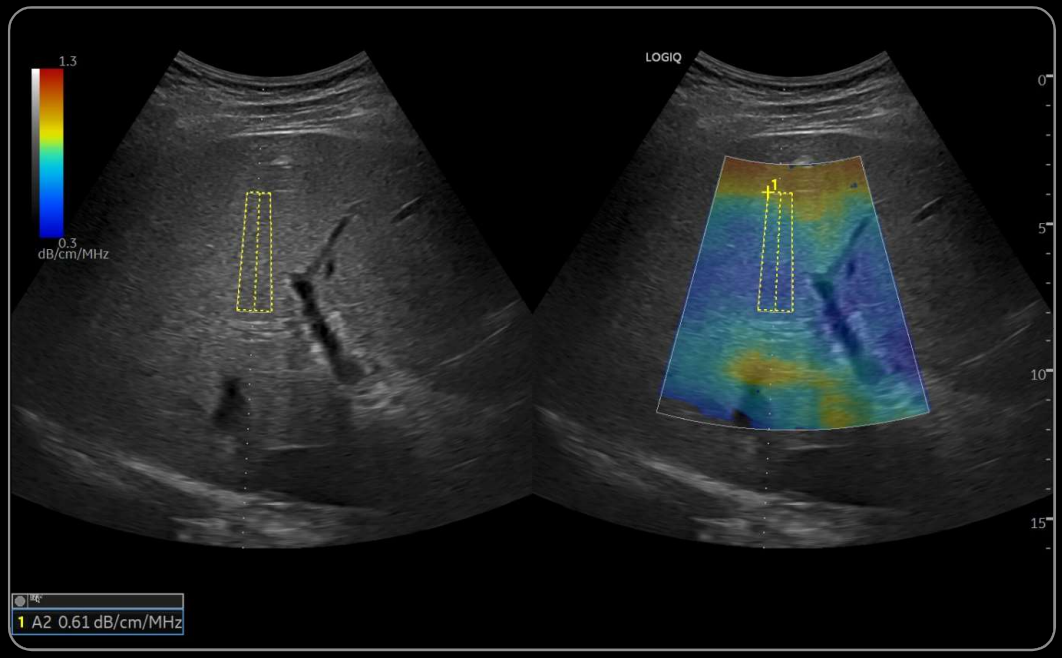
Ultrasound-Guided Attenuation Parameter (UGAP)[1]

- A real-time, image-guided method to measure fatty content in the liver tissue
- A valuable metric in assessing non-alcoholic fatty liver disease (NAFLD)



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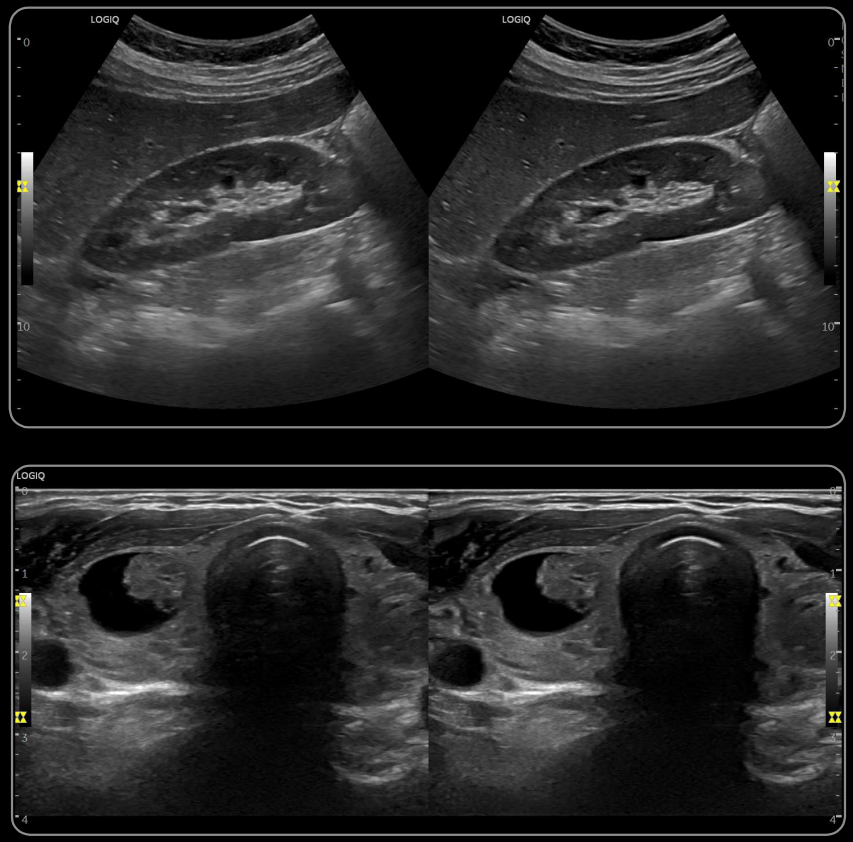
Speckle Reduction Imaging (SRI)

- New algorithms to enhance border differentiation, contrast resolution, improve tendon visualization, removes unwanted speckle and improves tissue homogeneity
- Available on all LOGIQ™ P10 transducers and models



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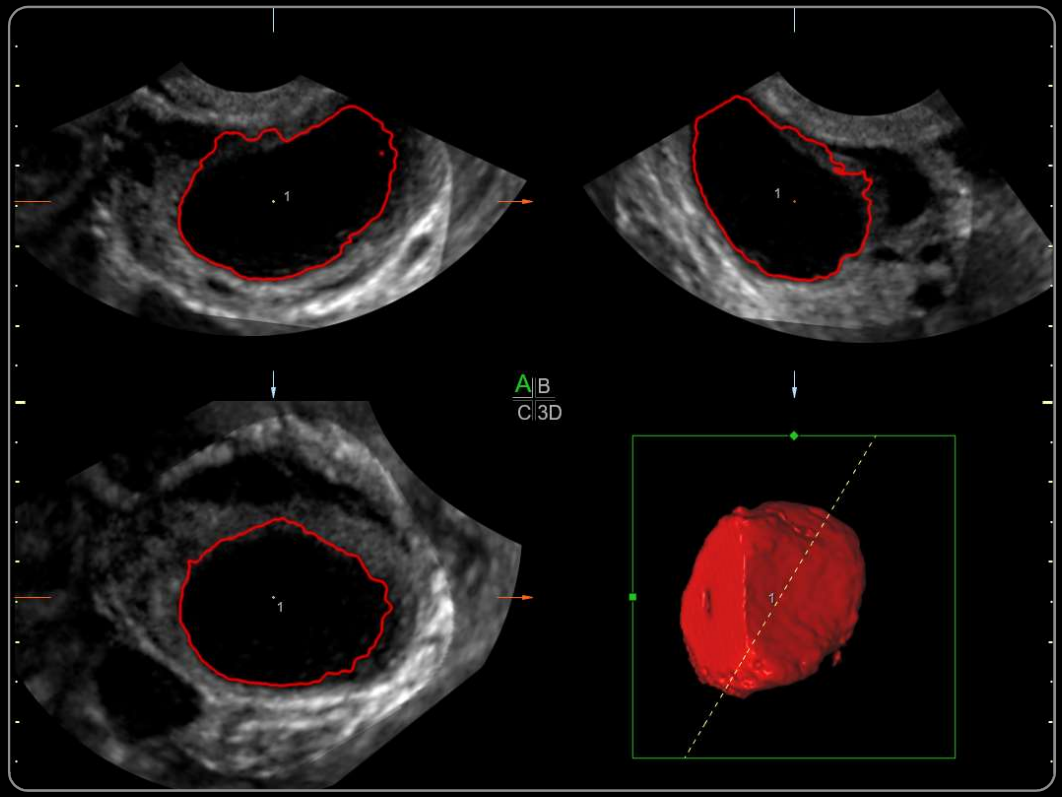
SonoAVC

Automatic Volume Calculation – helps to identify and measure follicles and cystic areas within a 3D volume. It standardizes the process of follicular assessment and decreases inter-observer and intra-observer variability.



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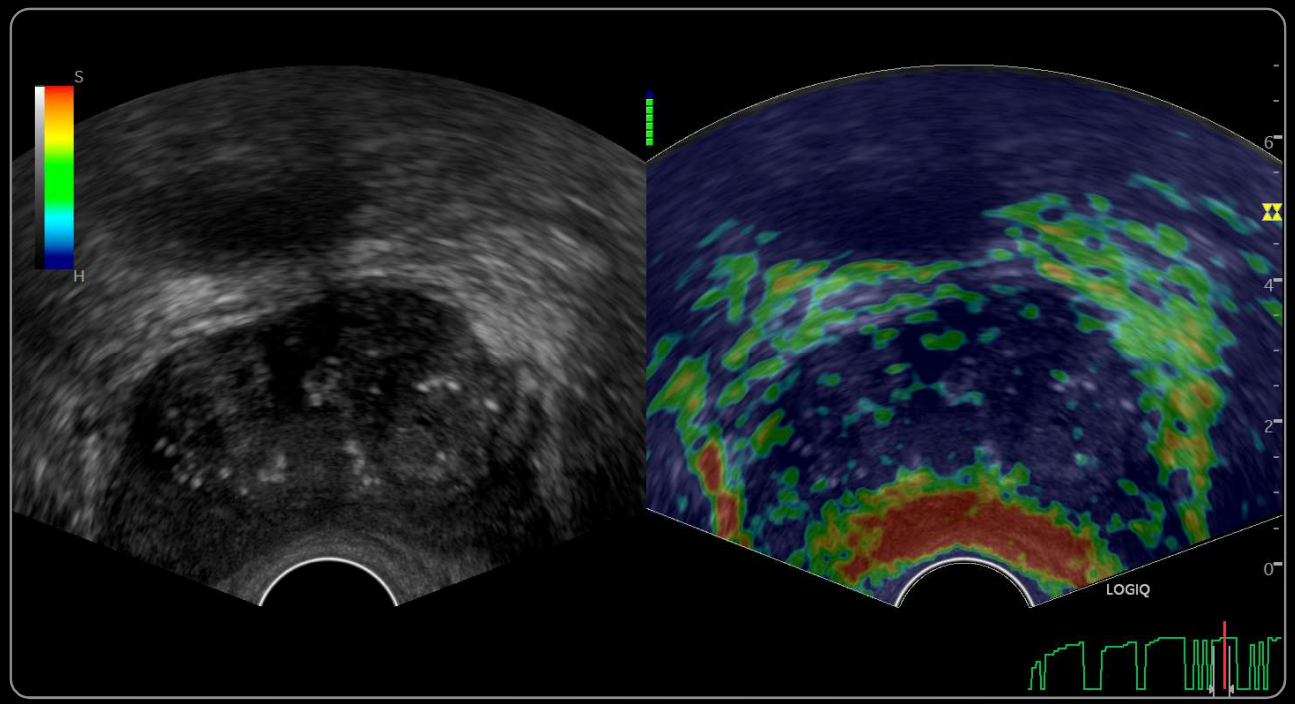
Urology enhancement

IC9-RS features

- 2D Shear Wave Elastography
- Strain Elastography
- CEUS

BE9CS-RS features

- Strain Elastography
- CEUS



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Multi-purpose capabilities for a diverse workload

Designed with your patients in mind

Liver

Cardiac

OB/GYN

Breast

Thyroid

Musculoskeletal

Urology

Vascular

Pediatrics

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Power Assistant[1]

Power Assistant is an innovative solution that provides the system battery power during transport to help decrease system shut-down and reboot time – helping achieve excellent productivity for excellent portable exams.

Highlights

- Prompt in & out of battery operation mode to help improve system's portability
- Simple plug in and out operation
- System safely shuts down automatically before battery runs out
- Wireless LAN capability
- Always ready to scan with Power Assist battery operation
- External battery enables up to one hour of offline scanning

1. Refer to the LOGIQ™ P10 XDclear™ Product Data Sheet for a list of purchasable options.

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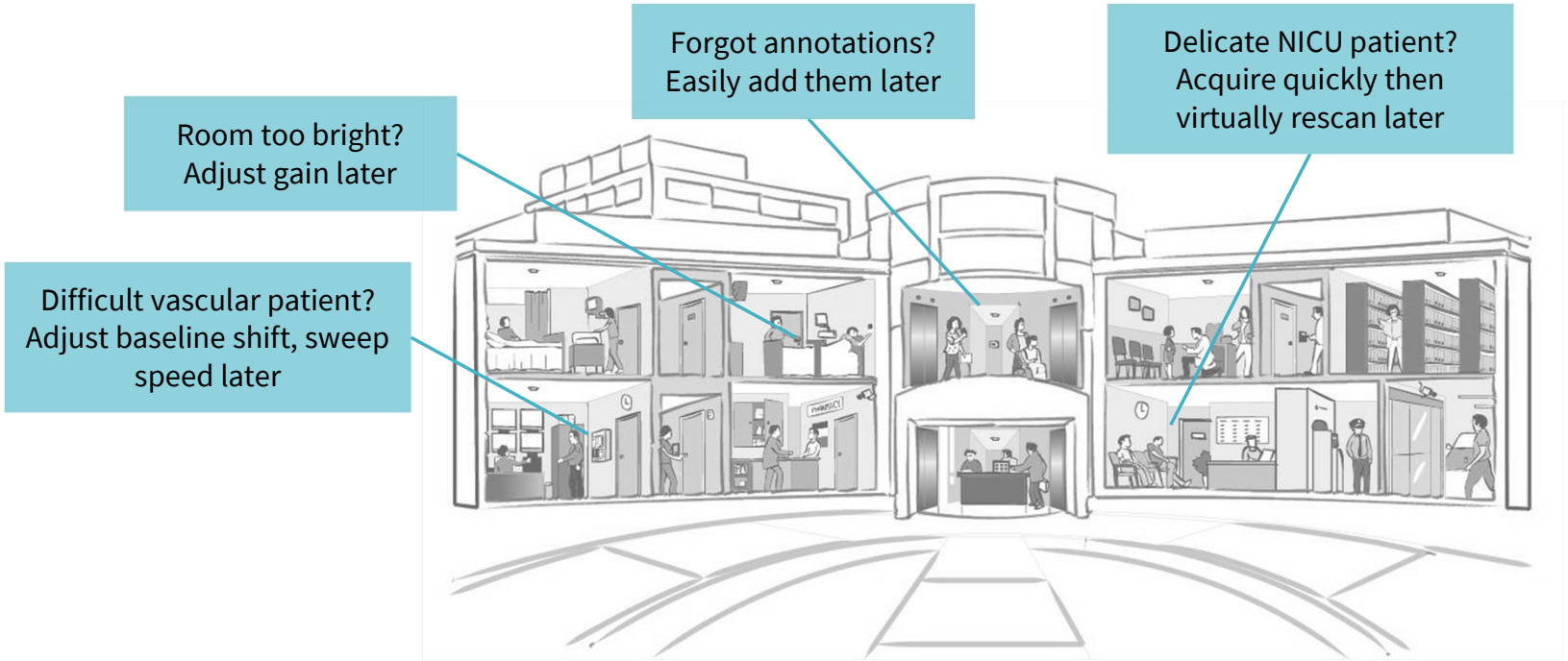
Raw data

The foundation for simplified workflow

Raw data capture enables to build a thorough exam while helping reduce scan time. This proprietary raw data format from GE HealthCare captures data earlier in the image processing chain enabling users to make changes to the data during or even after the exam has ended.



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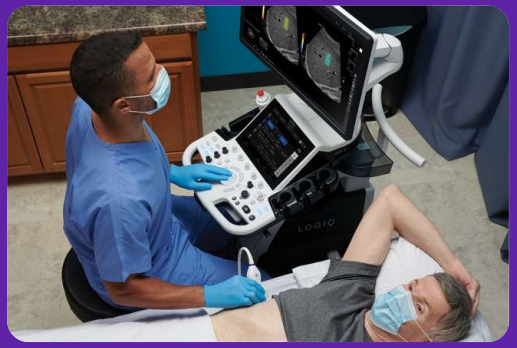
Powerful support



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LOGIQ™ apps
Remote Control

- Remotely operate the system from tablet or phone that has LOGIQ Smart App loaded
- Focused on ergonomics
- Includes:
  - Major modes
  - Freeze/print
  - Depth
  - Gain
  - ROI placement
  - Dual Image

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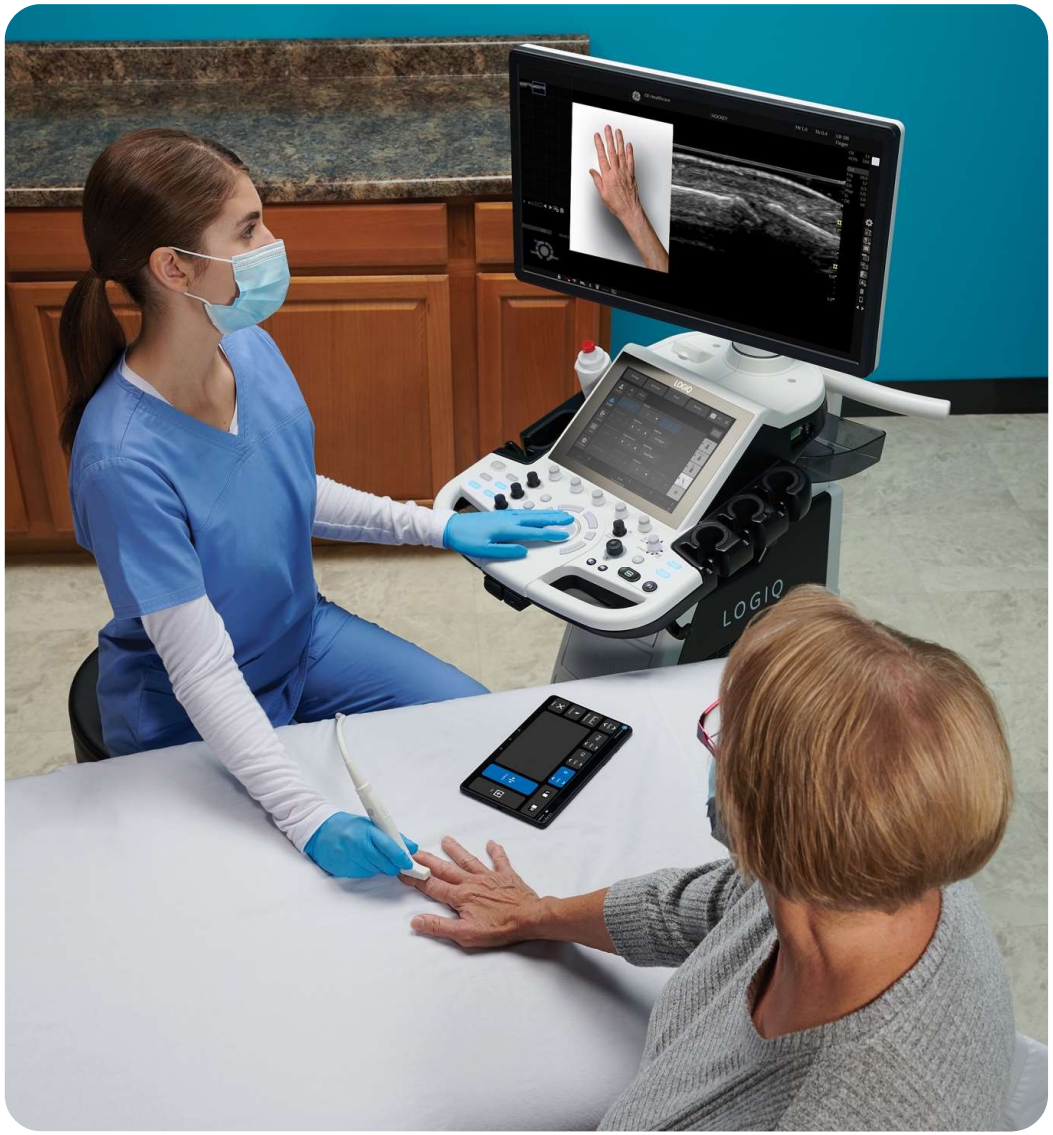
LOGIQ™ apps
Photo Assistant

A picture is worth a 1,000 words

- Photograph relevant anatomy and include photos with the clinical images
- Provides value context for documentation and comparison after a procedure
- Utilizes Android™ tablet or phone



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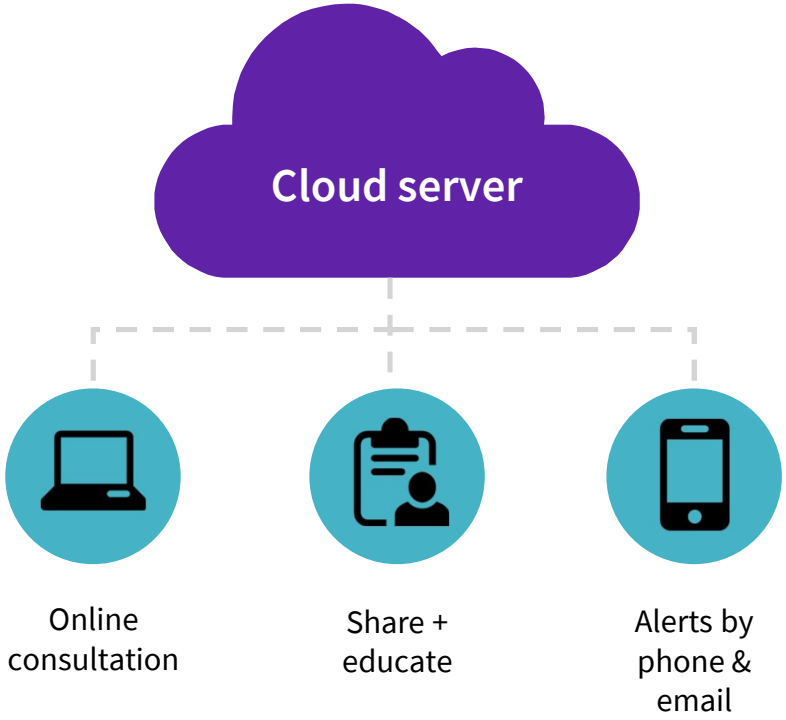
LOGIQ™ P10 XDclear™ and Trice® – Sharing ultrasound images

Clinical communication

- Ultrasound lab sends images, reports for consultation before referring the patient
- Ultrasound lab shares examination results for second opinion
- Ultrasound lab shares examination results with surgeon for treatment and surgery planning
- Sharing cases with medical community, accreditation support
- Routing of studies from remote sites

Doctor-patient communication

- Sharing exam results with patients



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Trice is a trademark of Trice Imaging, Inc.
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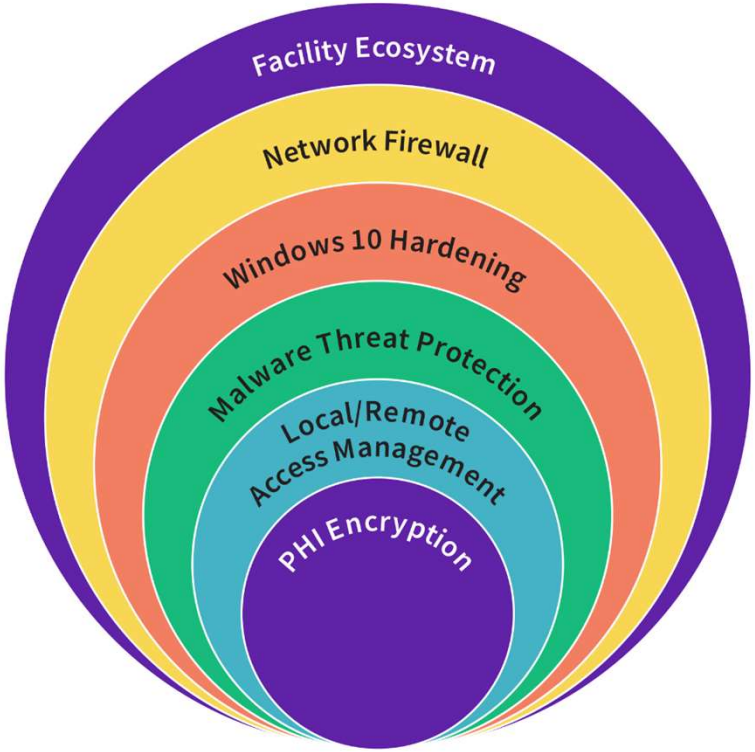
Data privacy & cybersecurity

Purpose

- Keep the machine functional in the face of cyber threats
- Protect the patient data on the machine from unauthorized access
- Enable you to successfully implement their HIPPA and security policies and still manage your daily workflow

SonoDefense solution



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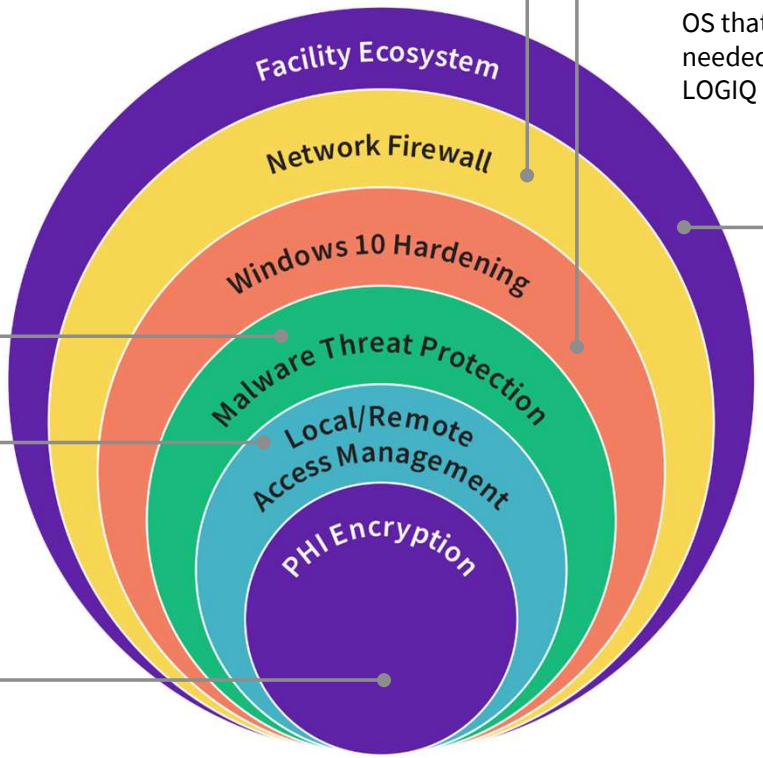
Defense-in-depth strategy

SonoDefense is designed for maximum security protection with a defense-in-depth strategy that incorporates security controls deployed in multiple layers. This approach enhances security by protecting the system against any particular attack using several independent methods.

Limits what can be run on the LOGIQ™ P10 XDclear™

- Customizable, role-based access
- Federated Identity Management
- Session management
- Auditing
- Secure remote access

- Customizable patient data encryption
- Enterprise wireless encryption
- IPv6 Internet Protocol address standard



Blocks unused communication channels

Disables services in the Windows® 10 OS that are not needed by the LOGIQ P10 XDclear

Reduces potential points of attack

Seamlessly integrates into your facility's security ecosystem

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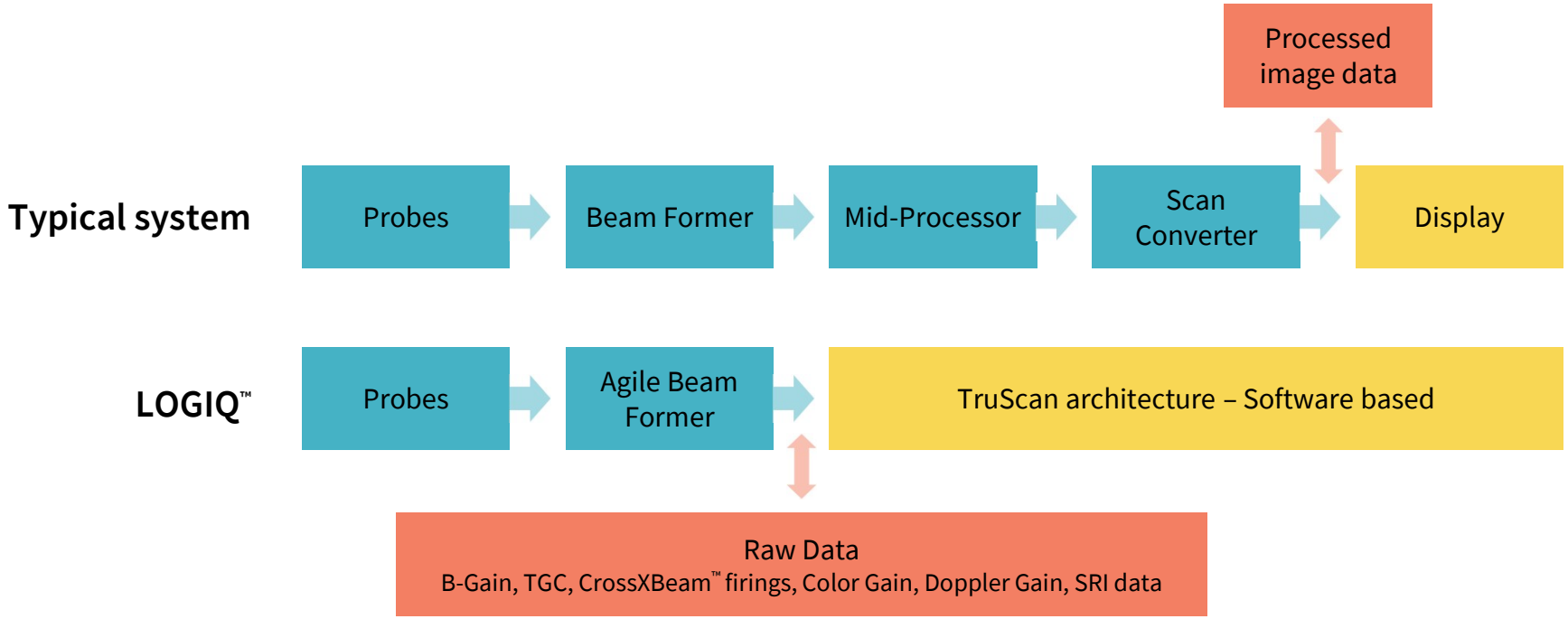
Raw data

TruScan™ architecture | Capturing raw data early in the image chain



Raw data processing with TruScan architecture enabling “virtual rescanning”

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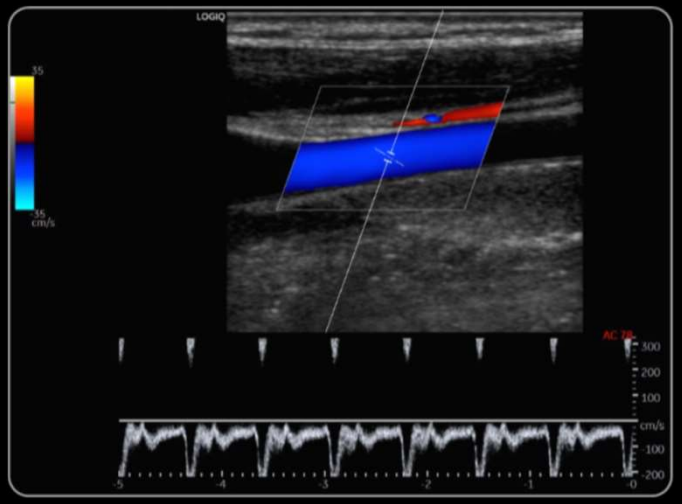
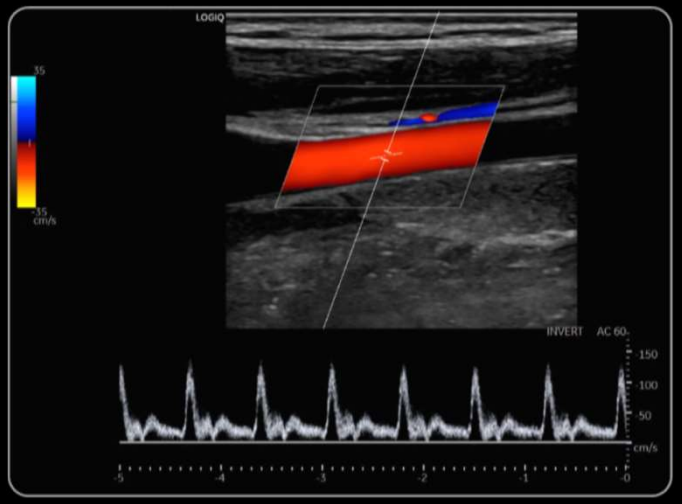
Raw Data Processing

Original Acoustic Data are stored before scan converting in a GE HealthCare “raw” format to be easily accessed and re-processed any time after the exam completion.

Highlights:

- Sub-optimal studies can be optimized
- Measurements can be re-done and reports regenerated
- All Imaging control parameters can be changed as:
  - B-Mode: Gain, DR, AO, Zoom, SRI…
  - CFM: Gain, Threshold, DualView…
  - PW: Baseline, Invert, Angle, Gain…





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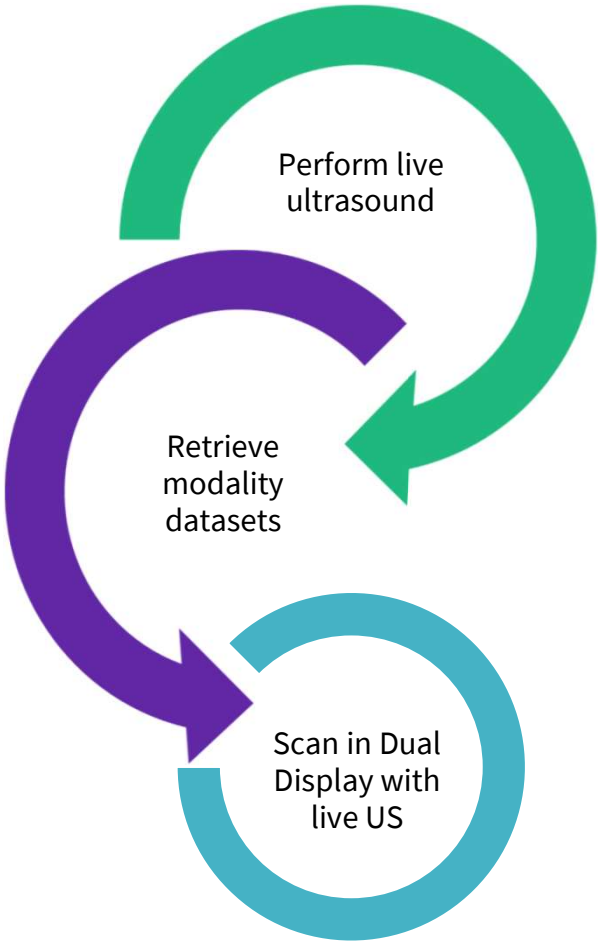
Multi-modality Query Retrieve[1]

Volume Navigation Import

- View real-time ultrasound with retrieved Ultrasound, Mammo, CT or MR datasets
- Potential time saver
- Simplified workflow
- Complementarity of information
  - Volume data set retrieval
  - Select desired image plane by scrolling
- Helps improve diagnostic confidence



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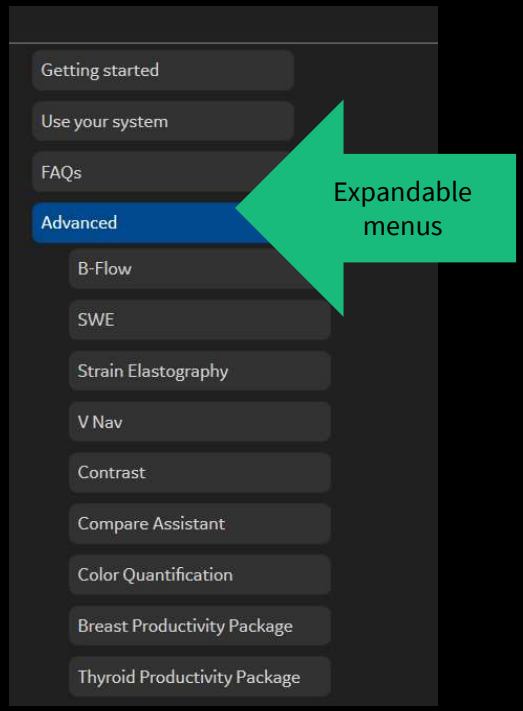
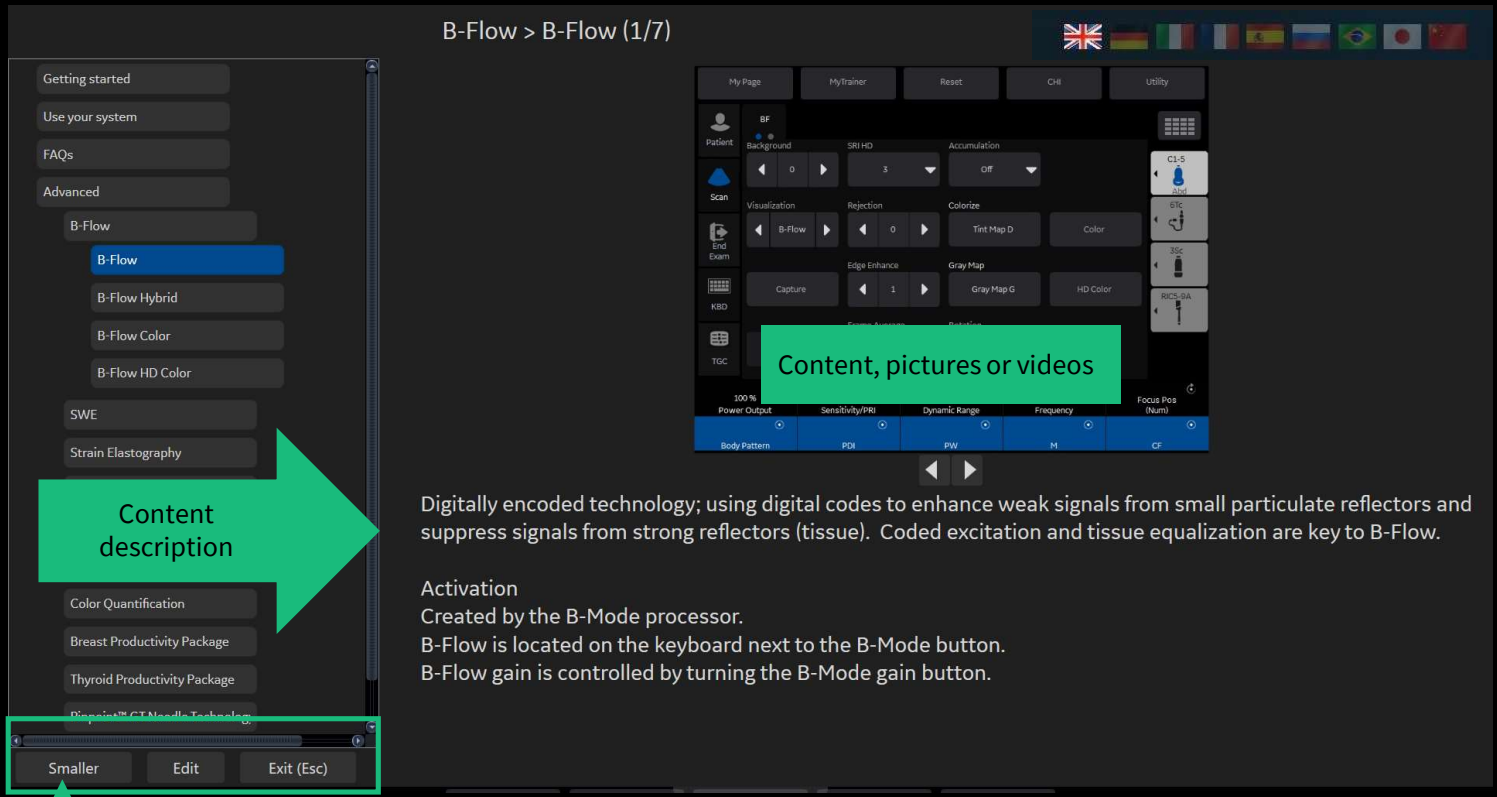
My Trainer on-board training modules





Smaller: Reduces the size of the My Trainer display
Edit: Allows you to remove content that is not required
Exit (Esc): Close My Trainer

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LOGIQ™ Club users' community

www.LOGIQClub.net

Access to the Club websites

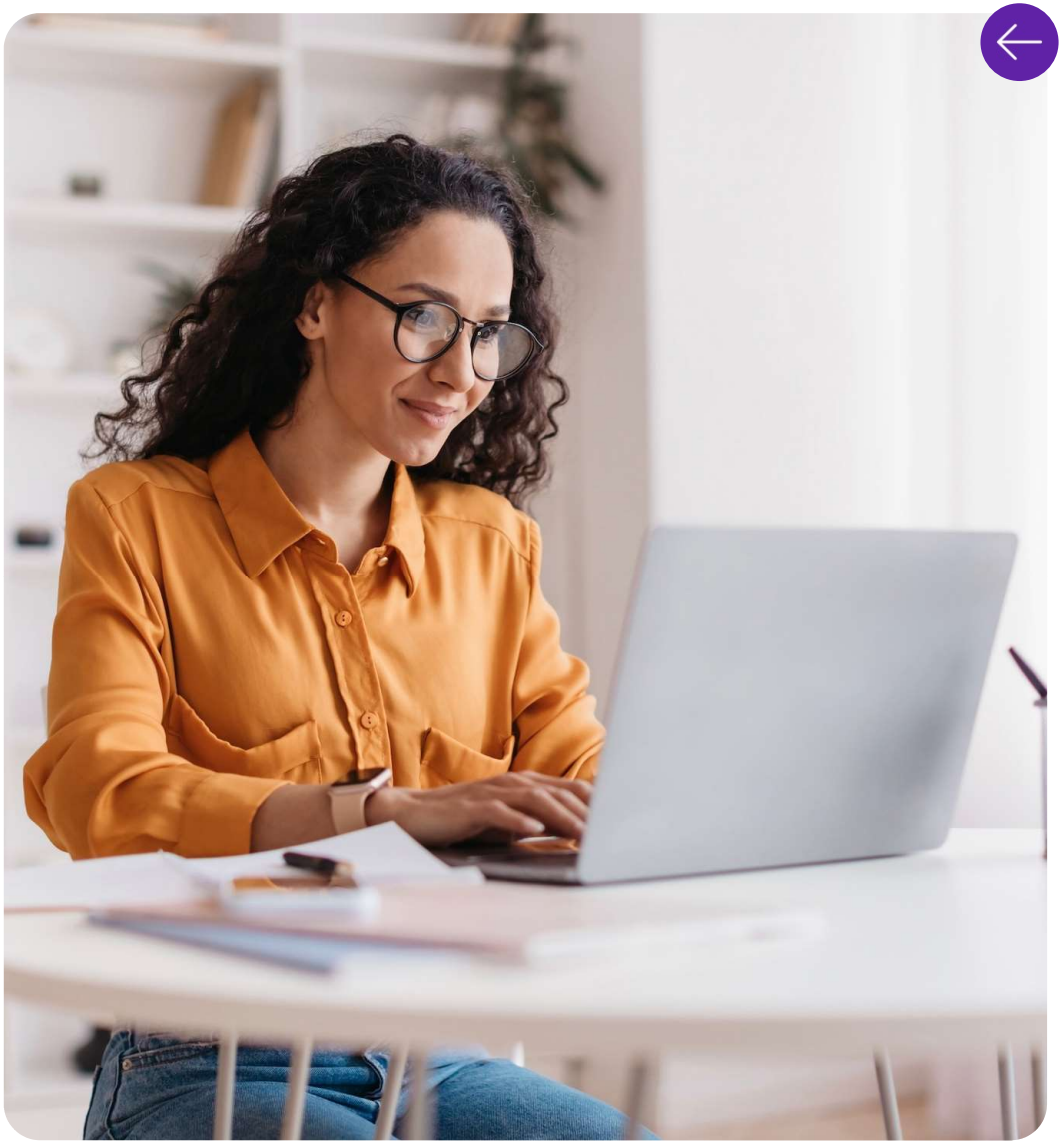
- Local contents, events
- Clinical courses in your country
- Application tips & tracks
- Publications and cases & papers
- Clinical cases & technical presentations
- Downloadable educational materials and DVD
- Online education

Personalized mailings & newsletters

- Be first to learn about new ultrasound products and software upgrades

User days and VIP lounges

- Learn about best practices from specialists around the globe
- Discuss and exchange information with ultrasound users worldwide



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LOGIQ™ Club users' community

Education highlights

Online education

- GE HealthCare white papers
- Application videos
- Clinical tutorials
- Video tutorials on advanced features
- Access to peer-to-peer reviewed papers
- International Academy of Medical Education (IAMU) at http://iamu.logiqclub.net

Residential education

- Volume Navigation training schools in:
  - Abdominal, Interventional
  - Musculoskeletal
  - Breast
  - Urology

Mobile app – now available

- Watch course videos and product tutorials directly on your smartphone

Welcome to the LOGIQ Club

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Clinical skills training: Digital Expert*

Designed for:	Ultrasound department managers and console users
Problem:	It is difficult to maintain the skill level of all users for all features on advanced ultrasound systems, especially for new staff or infrequent exam types
Solution:	Digital Expert provides easy on-demand access to live expert applications training, delivered on your own device

GE HealthCare Digital Expert delivers one-on-one personalized and hands-on learning from your ultrasound console to provide ongoing education to fully utilize the functions and features of your system. See more at https://youtu.be/TZjISiOkPFM

Hands-on learning, personalized experience

- Users learn on their own equipment
- Instructors see the users primary monitor allowing for them to understand what the student is seeing

Flexible and convenient training to fit your schedule

- Users schedule classes that fit their work and personal schedules
- 30-60 minutes courses with convenient online booking and flexible cancellation ensure that learning does not disrupt patient scanning

Digital technology connecting you to clinical experts

- Face-to-face technology provides a more personal experience vs phone calls
- Our trainers have many years of experience and are extensively trained on the content and technology

Live one-on-one expert training from your own system on your own schedule

*Availability and pricing vary by region.

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GE HealthCare