LOGIQ™ P9
Performance Series
Make it easy. Make it your own.

Imagination at work

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
Challenging ultrasound environment

**Time and 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**
- Cramped exam rooms
- Increasing need for portable exams

**Patient expectations**
- Well-informed patients
- Comfort and safety
# GE Ultrasound innovation

## Clinical focus

<table>
<thead>
<tr>
<th>Brand</th>
<th>Focus Area</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOGIQ™</td>
<td>General Imaging</td>
<td>Extraordinary images, Easy workflow, Image fusion and scan automation</td>
</tr>
<tr>
<td>Voluson™</td>
<td>Women’s Health</td>
<td>Extraordinary images, Exceptional 4D Advanced automation</td>
</tr>
<tr>
<td>Vivid™</td>
<td>Cardiovascular</td>
<td>Extraordinary images, 4D heart in a single beat Advanced quantitative tools</td>
</tr>
<tr>
<td>Venue™</td>
<td>Point of Care</td>
<td>Extraordinary images, Easy to use, Easy to clean</td>
</tr>
<tr>
<td>Vscan™</td>
<td>Primary Care</td>
<td>Extraordinary images, “Take a look” Size/weight of a soda can</td>
</tr>
<tr>
<td>ViewPoint™</td>
<td>Ultrasound IT</td>
<td>Ultrasound-specific productivity, Easy Workflow, Plug-ins for popular PACS</td>
</tr>
<tr>
<td>Invenia™</td>
<td>Breast Screening</td>
<td>Designed for screening, Advanced automation for fast-paced workflow</td>
</tr>
</tbody>
</table>

LOGIQ, Voluson, Vivid, Venue, Vscan, ViewPoint, and Invenia are trademarks of General Electric Company or one of its subsidiaries.
GE Ultrasound innovation
General Imaging products

Compact
Venue™ Series  LOGIQ™ e  Vscan™

NEW!

LOGIQ P7/LOGIQ P9

LOGIQ S7

Invenia™

ABUS

LOGIQ S8

LOGIQ E9
with XDclear™
LOGIQ™ P9
Make it easy. Make it your own.

Easy to use systems with fast performance and personalized workflow

**Personalized**
Customizable settings and workflow that help improve your ease of use

**Patient-Centric**
Solutions that enable improved focus on patients and help enhance your confidence and care delivery

**Practical**
Smart ergonomics and solutions to help improve your productivity and investment value

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
Personalized
LOGIQ™ P9
Make it easy. Make it your own.

**My Page** for customized personal preferences
- Personalize workflow by preset
- Configurable measurement, comments, body patterns, and functions
- Individual user logon

**Extended customization** for enhanced flexibility
- User defined keys in control panels and touch panels
- Configurable mode keys
- Configurable smart keys
- Digital TGC preset

**Simplified operator panel** for fast exams
- 80% reduction of physical buttons and controls*
- 10.4 inch touch panel
- Digital TGC and keyboard

*Internal GE engineering study using standardized protocols for an abdominal exam compared with prior version GE LOGIQ P6 ultrasound system.
Patient-Centric
LOGIQ™ P9
Helps you improve patient care

Achieve high image quality with ease
• Migration of Agile Acoustic Architecture from our leadership system into a lightweight portable design
• Wide assortment of LOGIQ advanced probes for high performance in a wide range of applications
• Features to help enhance diagnostic information such as Speckle Reduction Imaging, CrossXBeam™ and B-steer+²

Advanced tools² to apply on difficult cases
• Vascular features as Contrast Imaging¹ and B-Flow™,
• Elastography
• LOGIQ View
• 3D/4D Ultrasound
• Anatomical M-Mode

Addressing a variety of clinical needs
• Comprehensive solutions to address your needs in a wide range of clinical applications: Abdominal, Small Parts, Breast, Musculoskeletal, Vascular, Cardiac, OB/GYN

LOGIQ, CrossXBeam and B-Flow are trademarks of General Electric Company or one of its subsidiaries.

1. CEUS is not approved or cleared by the U.S. FDA.
2. Refer to the LOGIQ P9 brochure for a list of purchasable options
Radiology

Image uniformity with C1-5-RS from near to far field

Thyroid lesion vascularization using Power Doppler imaging and ML6-15-RS

Internal carotid artery plaque detailed representation using 9L-RS
Abdominal

Uniform liver imaging with C1-5-RS from near to far field

Vascularization of the spleen using B-Flow™ and 9L-RS

Renal artery hemodynamics with PW using C1-5-RS

LOGIQ and B-Flow are trademarks of General Electric Company or one of its subsidiaries.
Vascular

Clear visualization of the IMT of the CCA using 9L-RS

True hemodynamics seen in vascular imaging with B-Flow™ Color and 9L-RS

ICA hemodynamics with PW using 9L-RS

LOGIQ and B-Flow are trademarks of General Electric Company or one of its subsidiaries.
Small Parts

Lesion differentiation in breast using ML6-15-RS

Stiffness representation of breast lesion using Elastography option with ML6-15-RS

Thyroid lesion vascularization using B-Flow™ Color and 12L-RS

LOGIQ and B-Flow™ are trademarks of General Electric Company or one of its subsidiaries.
Musculoskeletal

Representation of the subscapularis tendon using ML6-15-RS

Biceps tendon imaging with ML6-15-RS

Superficial imaging of MTP joint with ML6-15-RS
Cardiology

Aortic valve regurgitation flow in apical long axis view using 3Sc-RS

Mitral valve M-Mode imaging with 3Sc-RS

Assessment of wall motion using TVI/TVD option with 3Sc-RS

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
3D/4D imaging of the fetus with RAB2-6-RS

Endocavitary imaging of the uterus using E8C-RS

Image uniformity with RAB2-6-RS from near to far field

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
Practical
LOGIQ™ P9 helps you...

**Ergonomics on demand**
An innovative ergonomic solution addressing your request for a slim, fully adjustable system to help increase your scanning comfort.

**Solutions**

1 to help you improve exam consistency and productivity

- Auto Image Optimization (ATO, ASO)
- Reset key
- Breast and Thyroid productivity packages
- Compare Assistant
- Scan Assistant
- GE Raw Data
- Auto IMT
- AutoEF
- Multi Modality Q/R
- Measure Assistant

**Extended portability to address your mobility needs**

- Power Assistant and wireless capability

1. Refer to the LOGIQ P9 brochure for a list of purchasable options.
Customer care
LOGIQ™ P9
Make it easy. Make it your own.

Tailored solutions\(^1\) to help you address your daily challenges

**Education**
- **My Trainer** – on-board training tools
- **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
- Global remote support ([InSite™ Exc](#))
- Dedicated financial solutions
- Probe care
- [www.gehealthcare.com/transducers](http://www.gehealthcare.com/transducers)

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\(^1\) Refer to the LOGIQ P9 brochure for a list of purchasable options

LOGIQ and InSite are trademarks of General Electric Company or one of its subsidiaries.
Its sleek, lightweight design incorporates powerful technologies while enhancing workflow and user experience.

All at an affordable price that helps meet budget expectations.

LOGIQ™ P9
Performance Series

Make it easy. Make it your own.
My Page

Configurable on each My Page

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

Abd

Carotid

Measurements

Body patterns

Functions

OB

Breast

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
Additional configurable capability

5 digital user defined keys

Configurable smart keys

<table>
<thead>
<tr>
<th>Imaging Mode</th>
<th>Function</th>
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<tbody>
<tr>
<td>Live B, B-Flow™</td>
<td>Focal Zone Up/Down</td>
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<tr>
<td></td>
<td>Frequency Up/Down</td>
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<tr>
<td>CF, TVI, B-Flow Color, PDI</td>
<td>Box Steer</td>
</tr>
<tr>
<td></td>
<td>Scale (PRF) Up/Down</td>
</tr>
<tr>
<td>PWD, CW, TVD</td>
<td>Baseline Up/Down</td>
</tr>
<tr>
<td></td>
<td>Scale (PRF) Up/Down</td>
</tr>
<tr>
<td>M/D cursor</td>
<td>Sample volume size</td>
</tr>
</tbody>
</table>

5 configurable mode keys

1 5 physical user defined keys

2 Freeze & P1 Exchangeable

3 LOGIQ and B-Flow are trademarks of General Electric Company or one of its subsidiaries.
Traditional Ultrasound
Rigid assumptions about how sounds interacts with the body

- Speed of sound is constant (1540 m/s)
- Sound attenuation is constant
- Ultrasound beam is pencil shaped
- Vessels are straight
- Blood flow is laminar

Reality is not so simple:
- Sound attenuation and velocity vary
- Ultrasound beam is a volume
- Vessels are tortuous
- Blood flow can be turbulent

Looking at the body as a phantom

Simplifying assumptions can lead to:
- Poor image quality
- Distortion of image geometry
- Lots of adjustments to optimize images
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
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

Global
January 2015
JB26907XE

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
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
Conventional Array

Active Matrix Array

Matrix arrays provide multiple rows of crystals, allow focusing in the near, mid and far field.

ML6-15-RS
High frequency linear probe

Great spatial resolution and image uniformity from near to far field

Footprint 50 mm

Ultra-high Doppler & Color frequency for excellent slow flow sensitivity
Recaptures the unused energy that passes through the crystal
Improves sensitivity axial resolution & penetration over traditional probes

LOGIQ™ P-Series Probes
Acoustic Amplifier
## LOGIQ™ P9 Probes

**Wide range of applications**

<table>
<thead>
<tr>
<th>Clinical application</th>
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<tr>
<td>Vascular</td>
<td>ML6-15-RS, 9L-RS, 12L-RS, L8-18i-RS, P8D</td>
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<tr>
<td>Cardiology</td>
<td>3Sc-RS, 6S-RS</td>
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<tr>
<td>OB/GYN</td>
<td>RAB2-6-RS, C1-5-RS, E8C-RS</td>
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<tr>
<td>Breast</td>
<td>ML6-15-RS, 12L-RS</td>
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<tr>
<td>Small Parts</td>
<td>ML6-15-RS, 12L-RS, L8-18i-RS</td>
</tr>
<tr>
<td>Pediatrics/Neonatal</td>
<td>8C-RS, 3Sc-RS, 6S-RS, 9L-RS, ML6-15-RS</td>
</tr>
<tr>
<td>Urology</td>
<td>C1-5-RS, E8C-RS, RAB2-6-RS</td>
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<tr>
<td>Intraoperative</td>
<td>L8-18i-RS</td>
</tr>
</tbody>
</table>

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

**Highlights:**

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

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
Virtual Convex

- Provides a convex field of view
- Compatible with CrossXBeam™
- Available on linear and phased array probes

View large anatomy in greater detail
Contrast Imaging$^{1,2}$

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

**Imaging Modes**
- Dual or single display
- Hybrid contrast
- Accumulation

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

Available for C1-5-RS (Abdominal studies)

1. CEUS is not approved or cleared by the U.S. FDA.
2. Refer to the LOGIQ P9 brochure for a list of purchasable options.
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

1. CEUS is not approved or cleared by the U.S. FDA.
2. Refer to the LOGIQ P9 brochure for a list of purchasable options.
B-Flow™/B-Flow Color

A GE innovation¹
• Does not use Doppler processing
• Based on GE 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 P9 brochure for a list of purchasable options

LOGIQ and B-Flow are trademarks of General Electric Company or one of its subsidiaries.
B-Flow™/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
LOGIQ P9
- 9L-RS
- 12L-RS
- ML6-15-RS
- L8-18i-RS

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
LOGIQ and B-Flow are trademarks of General Electric Company or one of its subsidiaries
**Strain Elastography**

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

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

**Available on the following probes:**

**LOGIQ P9**
- C1-5-RS
- ML6-15-RS
- 9L-RS
- 12L-RS

**Elasticity = Stress / Strain**

This soft lesion deforms under pressure.

This hard lesion does not deform under pressure.

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
2. Not cleared by the US FDA and not for sale is the USA
Strain Elastography\textsuperscript{1}
Semi-Quantification\textsuperscript{2}

**E-Index**
- Selected ROI’s elasticity value
- Round or manual tracing of ROI
- E-index range from 0 – 6
- Based on GE 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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\textsuperscript{1} Refer to the LOGIQ P9 brochure for a list of purchasable options
\textsuperscript{2} Not cleared by the US FDA and not for sale is the USA

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
**LOGIQ View**

**LOGIQ™ View** allows a real-time representation of long anatomical areas. (e.g. Achilles’ Tendon)

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

1. Refer to the LOGIQ P9 brochure for a list of purchasable options

LOGIQ and CrossXBeam are trademarks of General Electric Company or one of its subsidiaries.
3D/4D Ultrasound
GE Volume Imaging with 3D/4D dedicated abdominal probe

**Highlights:**
- Easy, quick, reproducible
- High volume data accuracy
- Comprehensive settings

**Volume Modes:**
- Multi-planar Imaging
- Surface rendering
- TUI – Tomographic Ultrasound Imaging
- VCI – Volume Contrast Imaging
- Vocal – Volume Calculation

**Probes:**
- RAB2-6-RS (Abdominal)

1. Refer to the LOGIQ P9 brochure for a list of purchasable options.
3D/4D Ultrasound¹
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 Colour
- 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

¹ Refer to the LOGIQ P9 brochure for a list of purchasable options

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
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.

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
3D/4D Ultrasound¹
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

¹ Refer to the LOGIQ P9 brochure for a list of purchasable options
Flow Quantification

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 heart beat cycles
- Automatic or manual ROI tracing
- “Save ROI” feature for monitoring
- Manual disabling & enabling of frames
- Export traces in ASCII format

1. Refer to the LOGIQ P9 brochure for a list of purchasable options

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
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

Evaluate heart function with additional data

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
Ergonomic Adaptable System

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
Ergonomic Adaptable System

Peripheral options

- Multi-purpose holder (L & R reversible)
- Physical A/N keyboard
- Articulating Arm
- Drawer
- Rear Tray
- Paper Tray
- High Cabinet
- Side Tray (L & R)

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
Ergonomic Adaptable System

Rotate
+/- 30 degrees

Up/Down
810 – 910 mm
Ergonomic Adaptable System

LOGIQ™ S8/S7 = 310 mm

200 mm

LOGIQ™ S8/S7 = 310 mm

200 mm

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
Ergonomic Adaptable System
Intuitive interface

• LOGIQ™ design operator panel
• 10.4” touch screen with simplified User Interface
• User-friendly keys and backlight design
System adjustability

LCD monitor with articulation arm:
System adjustability

Up and down:
Compact

(Smaller than LP6 physical footprint 474 x 740)

495 mm
685 mm
Connectivity

Output Ports
- USB
- Composite
- HDMI
- S-Video
- Ethernet

Network storage
- DICOM®
- SaveAs
- MPEGView
- Report Save As

DICOM is a registered trademark of the National Electrical Manufacturers Association. Third party trademarks are the property of their respective owners.
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)
Scan Assistant

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

Feature Highlights

- Initiates and completes user selected required measurements
- Automatically steers Color Doppler
- Automatically sets up Imaging controls and modes
- Automatically inserts comments
- Automatically reorders images to reader's preference

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
2. Internal GE engineering study using standardized protocols for an abdominal exam compared with prior version GE LOGIQ P6 ultrasound system. LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
Compare Assistant

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.

1. Refer to the LOGIQ P9 brochure for a list of purchasable options

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
1. Refer to the LOGIQ P9 brochure for a list of purchasable options
Compare Assistant
Help streamline comparison to prior exams

At the scanner...

1. Easy access to past exam data on the scanner
2. Side-by-side compare and store past exam image to today’s image
3. Set image setting of live scanning to match past exam image
4. 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 P9 brochure for a list of purchasable options
2. Automated when LOGIQ P9 data is used
Measure Assistant
Designed to work in OB exams

In Scan Assistant:
- Freeze on anatomy
- Measurement auto applied
- Print to accept or easily edit if needed

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
Measure Assistant\textsuperscript{1}
Designed to work in breast exams

Few simple steps to assist the user with breast measurements

- User bounds lesion with ROI
- System auto traces, generates height and width
- User prints to accept or easily edits as needed
- Messages on the status bar help guide the user

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.

1. Refer to the LOGIQ P9 brochure for a list of purchasable options
Breast Productivity\textsuperscript{1}

Measurement package

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

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

Directly from BI-RADS lexicon

Refer to the LOGIQ P9 brochure for a list of purchasable options

BI-RADS is a trademark of the American College of Radiology. Third party trademarks are the property of their respective owners. DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.
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\(^\circ\) SR

DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.

1. Please refer to the LOGIQ P9 brochure for a list of purchasable options.
Auto IMT

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
- Save offset distance and IMT measurement lengths to help increase reproducibility

An efficient, reproducible method of carotid artery analysis
AutoEF

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.
Power Assistant

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 (lasting up to 20 min.) to help improve system’s portability
• Simple plug in and out operation
• System safely shuts down automatically before battery runs out
• Wireless LAN capability

Notes

• Scanning not available when in battery operation mode
• Battery charges only when system power is on

1. Refer to the LOGIQ P9 brochure for a list of purchasable options

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
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.

- Difficult vascular patient? Adjust baseline shift, sweep speed later
- Room too bright? Adjust gain later
- Forgot annotations? Easily add them later
- Delicate NICU patient? Acquire quickly then virtually rescan later
Raw Data

TruScan™ Architecture
Capturing Raw Data early in the image chain

Typical System

Probes → Beam Former → Mid-Processor → Scan Converter → Display

LOGIQ

Probes → Agile Beam Former → TruScan Architecture – Software Based

Raw Data processing with TruScan architecture enabling “Virtual Rescanning”
Raw Data processing

Original Acoustic Data are stored before Scan Converting in a GE “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...
Multi-modality Query Retrieve

Live Ultrasound comparison with retrieved CT or MRI Volume dataset

- Potential time saver
- Simplified workflow
- Complementarity of information
  - Volume data set retrieval
  - Select desired image plane by scrolling
- Helps improve diagnostic confidence

1. Refer to the LOGIQ P9 brochure for a list of purchasable options

LOGIQ is a trademark of General Electric Company or one of its subsidiaries.
My Trainer – on-board training modules

- Get started
- Use your system
- FAQs

Contents Pictures or Videos

Contents select buttons (four): First, Previous, Next, Last

Description
Articulating arm: Turn the release knob counter clockwise to unlock the LCD monitor. The LCD monitor can be moved freely in all directions. Grab the bottom of the LCD monitor when you adjust the position of the monitor and monitor arm.

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LOGIQ™ Club users community
www.LOGIQClub.net

Access to the Club websites
• Local content and events
• Clinical in-person courses
• Application tips & tricks
• Publications, cases & papers
• Clinical cases & technical presentations
• Downloadable product educational materials and DVDs

User Days and Lounges
• Learn best practices from specialists around the globe
• Discuss and exchange information with ultrasound users worldwide

Personalized Mailings and Newsletters
Learn about new ultrasound products and software upgrades
Service. Designed for peace of mind.

With three years of coverage\(^1\), the LOGIQ\(^\text{TM}\) P9 system helps provide you value and peace of mind right from the start.

LOGIQ P9 system is also empowered by InSite\(^\text{TM}\)* with Express Connection - GE Healthcare’s innovative service technology for quick access to technical and clinical experts for personalized support.

**InSite with Express Connection enables:**
- Proactive monitoring
- Real-time technical and application support**
- Problem diagnosis
- Fast repair of your equipment (more uptime)

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1. Please refer to the LOGIQ P9 brochure for a list of purchasable options.
*InSite functions dependent on internet access and speed.
**May vary by region.

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