### GE Healthcare

# LOGIQ e Ultrasound



### **Product Description**

The LOGIQ<sup>TM</sup> e combines the high performance of a console system with the portability of a laptop. GE Healthcare's compact system is designed for general imaging, musculoskeletal, anesthesiology, interventional, emergency, and critical care applications. It provides ultrasound imaging with precise anatomical detail at a variety of depths. The system includes innovative features that help simplify interventional procedures.



# **General Specification**

Console Dimensions	
Height	<ul><li>70 mm (2.75 in) console only</li><li>100 mm (3.94 in) with handle</li></ul>
Width	<ul> <li>295 mm (11.61 in) console only</li> <li>343 mm (13.50 in) with handle</li> </ul>
Length	<ul> <li>346 mm (13.62 in) console only</li> <li>375mm (14.76 in) with handle</li> </ul>
Weight with Battery	<ul> <li>approximately 5.2 Kg (11.5 lbs)</li> </ul>

### **Console Electrical Power**

Voltage: 100-240 V AC

Frequency: 50/60 Hz

Power: Max. 130 VA

### **Console Design**

Laptop Style

Lithium Ion Battery

Integrated Solid State Drive

CPU – Intel Duo Core

### **Docking Cart Dimensions**

Height: 810-950 mm (26.6-31.2 in)

Width: 470 mm (15.4 in)

Depth: 617 mm (20.2 in)

Weight: 53 kg (116.8 lbs.) without accessories

### **Isolation Cart Dimensions**

Height: 830-1130 mm (32.7-44.5 in)

Width: 540 mm (21.3 in)

Depth: 510 mm (20.1 in)

Weight: 30.5 kg (67.1 lbs) without accessories

# User Interface

### **Operator Keyboard**

Alphanumeric Keyboard

Ergonomic Hard Keys

Backlight Keys

### **Display Screen**

15 in High-Resolution Color LCD

Resolution: 1024 x 768

Horizontal/Vertical viewing angle: +/-80 degree

Brightness Adjustment

Integrated Speakers

Audio Volume Adjustment

Interactive Dynamic Software Menu

### **Console Interfaces**

DC Power Input

USB 2.0 (3)

LAN 10/100/1000 BaseT

Docking Cart Connector

HDMI

### Docking Cart Interfaces

AC Power Input

DVI

USB 2.0 (4)

Speakers

3 Probe Port (optional)

### Isolation Cart Interfaces

AC Power Input

3 probe Port (optional)

# System Overview

Applications

Abdomen

Cardiac

Gynecology

Musculoskeletal

# System Overview (Continued)

<b>Applications (Contin</b>	nued)
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Obstetrical

Nerve Block

Pediatric

Small Parts

Urological

Vascular

Rheumatology

**Emergency Medicine** 

Cardiac intra-operative

### **Transducer Types**

Convex Array: C1-5-RS

Microconvex Array: 8C-RS, E8C-RS

Linear Array: 9L-RS, 12L-RS, L4-12t-RS, L8-18i-RS, L10-22-RS

Phased Array: 3Sc-RS, 6S-RS

TEE: 6Tc-RS

### **Operating Modes**

B-Mode

M-Mode

Anatomical M-Mode/Color M-Mode (AMM) (optional)

Color Flow Mode (CFM)

Power Doppler Imaging (PDI)

High-Res PDI (optional)

Continuous Wave Doppler (CWD) (optional)

Pulse Wave Doppler (PWD)

Tissue Velocity Image/Tissue Velocity Doppler (TVI/TVD) (optional)

Needle Recognition (optional)

### **Standard Features**

Integrated Solid State Drive

Automatic Optimization

CrossXBeam™

**Standard Features (Continued)** 

Speckle Reduction Imaging (SRI-HD)

Virtual Convex/Virtual Apex

Fine Angle Steer

HD Zoom (Write Zoom)

Coded Harmonic Imaging (CHI)

Raw Data Processing

Quicksave

On-board User Manual (Help)

InSite<sup>™</sup> ExC capability

Loop storage—from live scanning and from memory

Patient Information Database

Customizable User Interface

Full M&A Calculation Package with Real Time Auto Doppler Calculations

Vascular Calcs

Cardiac Calcs

OB Calcs and Tables

Fetal Trending

Multi Gestational Calcs

Musculoskeletal and Hip Dysplasia Calcs

**Gynecological Calcs** 

**Urological Calcs** 

**Renal Calcs** 

Small Parts Calcs

Rheumatology Calcs

Pediatric Calcs

Report Writer Package

### **Software Options**

easy3D

LOGIQ View

Needle Recognition

Stress Echo

eSmart Trainer

Auto IMT

DICOM® 3.0 Connectivity/Encrypted DICOM

# System Overview (Continued)

mage Split Screen       • Live and/or frozen         • B + B/CFM or PDI         • Independent Cine playback         • Conventional or wide screen display         • Conventional or wide screen display         • Colorized B         • Colorized M         • Colorized CW         • Independent Dual B/PW/CW         Display         • Display Formats: Top/Bottom	
<ul> <li>B + B/CFM or PDI</li> <li>Independent Cine playback</li> <li>Conventional or wide screen display</li> <li>Conventional or wide screen display</li> <li>Conventional or wide screen display</li> </ul>	
<ul> <li>Independent Cine playback</li> <li>Conventional or wide screen display</li> <li>Conventional or wide screen display</li> <li>Conventional or wide screen display</li> <li>Colorized B</li> <li>Colorized M</li> <li>Colorized PW</li> <li>Colorized CW</li> <li>Independent Dual B/PW/CW Display</li> </ul>	
<ul> <li>Conventional or wide screen display</li> <li>Conventional or wide screen display</li> <li>Conventional or wide screen display</li> <li>m: Read/Write Zoom</li> <li>Colorized B</li> <li>Colorized B</li> <li>Colorized M</li> <li>Colorized PW</li> <li>Colorized CW</li> <li>Independent Dual B/PW/CW Display</li> </ul>	
display • Conventional or wide screen display m: Read/Write Zoom zed Image • Colorized B • Colorized M • Colorized PW • Colorized CW ne Display • Independent Dual B/PW/CW Display	
display m: Read/Write Zoom zed Image - Colorized B - Colorized M - Colorized PW - Colorized CW ne Display - Independent Dual B/PW/CW Display	
m: Read/Write Zoom zed Image • Colorized B • Colorized M • Colorized PW • Colorized CW • Independent Dual B/PW/CW Display	
Colorized M     Colorized PW     Colorized CW     Independent Dual B/PW/CW     Display	
Colorized PW     Colorized CW     Independent Dual B/PW/CW     Display	
Colorized CW     Independent Dual B/PW/CW     Display	
ne Display • Independent Dual B/PW/CW Display	
Display	
or Side/Side selectable Format Size: Vert1/3 B; Vert1/2 B; Vert2/3 B; Horiz1/2	
B; Horiz1/4 B; TL Only format switchable after freeze	
Update mode: timed based     on sweep	
Quad Screen Display access from Split Screen	
l Convex	
Display Annotation	
tion/Hospital Name	
3 types selectable MM/DD/YY, DD/MM/YY, YY /MM/ DD	
2 types selectable 24 hours, 12 hours	
tor Identification	
t Name: First, Last, & Middle	
t Identification: 64 characters	
tional Age from LMP/EDD/GA/BBT	
• MI: Mechanical Index	
• TIS: Thermal Index Soft Tissue	
• TIC: Thermal Index Cranial	
(Bone)	
TIB: Thermal Index Bone	
n Status (real-time or frozen)	

• B + CFM (PDI)/M

B + CFM (PDI)/PW
B + CFM (PDI)/CW
3D - Mode

Probe Orientation Marker: Coincides with orientation marking on the image monitor

# System Overview (Continued)

Display Annotation (Continued)

Image Preview

Gray/Color Bar

Cine Gauge

Measurement Summary Window

Measurement Results Window: pre-settable display location

#### Probe Type

Application Name

Imaging Parameters by Mode (current mode/see below)

Focal Zone Markers

Body Pattern

B Scale Markers: 2 types; Depth/Width

M Scale Markers: 2 types; Time/Depth, Time

Image Management Menu: Menu, Delete, and Image Manager

#### Image Palette

Caps Lock: On/Off

System Messages Display

Trackball Functionality Status: Scroll, M&A (Measurement and Analysis), Position, Size, Scan Area Width, and Tilt

### Battery Status

Biopsy Guide Line and Zone

Heart Rate

### System Parameters

### System Setup

User Programmable Preset Capability

Factory Default Preset Data

Factory Default Application Data

Languages setup for UI: Brazilian Portuguese, Chinese, Danish, Dutch, English, Finnish, French, German, Greek, Italian, Japanese, Norwegian, Russian, Spanish and Swedish

Languages for Manuals: Brazilian Portuguese, Chinese, Czech, English, French, German, Italian, Japanese, Spanish, Bulgarian, Croatian, Danish, Dutch, Estonian, Finnish, Greek, Hungarian, Indonesian, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovakian, Swedish, Kazakh, Traditional Chinese, and Turkish

**Operation Error Message Display** 

System Boot Up: < 25 sec

Probe Loading: < 5 sec

### B-Mode

Brightness mode. Real time displays of a two dimensional cross section of a three-dimensional soft tissue structure. Ultrasound echoes of different intensities are mapped to different gray scale or color values in the display.

Scan Parameters • B/M Acoustic Output: 0-100%; 2%, 5%, 10% increments • Image Reverse: On/Off • B Colorize: 9 types Thermal Index: TIC, TIS, TIB • Focus Number: probe dependent, 8 in maximum • Line Density: 5 increments: probe dependent • Frame Average: 6 increments • Edge Enhance: 8 increments • Angle (deg): probe dependent, 10-131 degrees • Gray Scale Map: 12 types • Gain: 0-90 dB, 1 dB increments • Dynamic Range: 36-96 dB, 3-6 dB increments • Harmonics: on/off • Virtual Convex: on/off • Depth: 0.2-33 cm: probe

- Depth: 0.2-33 cm: probe dependent
- Focus Depth: 7-9 increments: probe dependent
- Rejection: 6 increments
- Frequency: 3-5 increments: probe dependent

### Color Flow Mode (CFM) or Color Doppler

A real-time two-dimensional cross-section image of blood flow. Color gradient used to represent directional blood flow (velocity, variance, power and/or direction) prioritized over amplitude.

Scan Parameters	• Base Line
	• Invert: On/Off
	• CF/PDI Focus Depth: 6 steps default pre-settable
	<ul> <li>CF/PDI Acoustic Output: 0-100%; 2%, 5%, 10% increments</li> </ul>
	<ul> <li>Packet Size: 8-24: probe dependent</li> </ul>

### System Parameters (Continued)

Color Flow Mode (CFM	1) or Color Doppler (Continued)
Scan Parameters	• Line Density: 5 increments
	• Frame Average: 7 increments
	• PRF: 0.3K–22K Hz: probe dependent
	• Spatial Filter: 6 steps
	• Gain: 0–40 dB, 0.5 dB increments
	<ul> <li>Wall Filter: 4 steps: application and probe dependent</li> </ul>
	<ul> <li>Angle/Width (deg, mm): probe dependent</li> </ul>
	<ul> <li>CF/PDI Vertical Size (mm): default pre- settable</li> </ul>
	• CF/PDI Center Depth (mm): default pre- settable
	<ul> <li>CF/PDI Frequency: 2–4 steps: probe dependent</li> </ul>
	• CF/PDI Focal Number: 1
	<ul> <li>Color Map: 14 types at most: application and probe dependent</li> </ul>
	<ul> <li>Color Threshold: 10–100%, 10% increments</li> </ul>

### Power Doppler Imaging Mode (PDI)

Color gradient used to represent blood flow using amplitude shift vs. velocity shift (Color Doppler). Prioritizes amplitude over direction.

Scan Parameters	• PDI Map: 14 types
	<ul> <li>CF/PDI Acoustic Output: 0-100%; 2%, 5%, 10% increments</li> </ul>
	• Packet Size: 8-24: probe dependent
	• Spatial Filter: 6 steps
	<ul> <li>Frame Average: 7 steps: probe dependent</li> </ul>
	• PRF: 0.3K-11.4K Hz: depth dependent
	<ul> <li>Power Threshold: 10–100%, 10% increments</li> </ul>
	CF/PDI Vertical Size: default     pre-settable
	CF/PDI Center Depth: default     pre-settable
	• CF/PDI Focal Number: 1
	• Gain: 0-40 dB, 0.5 dB increments
	Wall Filter: 4 increments: probe dependent
	CF/PDI Frequency: 2–4 increments: probe dependent

### High-Res PDI (Optional)

Provides better hemodynamics visualization by combining effects of B-mode and color flow Doppler using a proprietary equation.

ican Parameters	• High-Res PDI Map: 11 types
	• High-Res PDI Acoustic Output: 0-100%; 2%, 5%, 10% increments
	<ul> <li>Packet Size: 8-20: probe dependent</li> </ul>
	• Spatial Filter: 6 steps
	• Frame Average: 7 steps: probe dependent
	PRF: 0.2K-25K Hz: depth     dependent
	Power Threshold: 10–100%, 10% increments
	• High-Res PDI Focal Number: 1
	• Gain: 0–40 dB, 0.5 dB increments
	• Wall Filter: 4 increments: probe dependent
	• High-Res PDI Frequency: 2–3 increments: probe dependent

Available on 9L-RS, 12L-RS, L4-12t-RS, L8-18i-RS and L10-22-RS probes

### M-Mode/Anatomical M-Mode (Optional)

Motion mode. Soft tissue structure is presented as scrolling display, with depth on the Y-axis and time on the X-axis. Anatomical M-Mode (AMM) Allows M-Mode on stored 2D cine clip. Facilitates arrhythmia assessment and cardiac measurements.

Scan Parameters	• Sweep Speed: 8 increments
	• M Color: 9 types
	<ul> <li>M/PW Display Format: V-1/3B, V-1/2B, V-2/3B, H-1/2B, H- 1/4B, TL Only</li> </ul>
	<ul> <li>B/M Acoustic Output: 0-100%; 2%, 5%, 10% increments</li> </ul>
	Rejection: 6 increments
	• Gray Scale Map: 12 types
	• M Gain: +/- 20dB delta from B, 1dB increments

### System Parameters (Continued)

### PW/CW Mode

Scan Parameters

Pulse Wave Doppler (PW), Continuous Wave Doppler (CW) are used for displaying the speed, direction, and spectral content of blood flow at selected anatomical sites.

Maximum and Minimum

Scan Parameters	<ul> <li>Maximum and Minimum Velocity Scales</li> </ul>	
	• PW	
	Max: 870 cm/s, 19,800 Hz	
	Min: 15 cm/s, 700 Hz	-
	• CW	
	Max: 1,460 cm/s, 40,000 Hz	_
	Min: 40 cm/s, 2,100 Hz	
	• Gray Scale Map: 8 types	
	• Base Line: 5–95%	
	<ul> <li>SV Gate: 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 mm: application dependent</li> </ul>	
	• Angle Correct: +/- 90°, 1° step	
	• Spectral Color: 6 types	
	PW Sweep Speed: 8 increments	
	• Invert: On/Off	
	<ul> <li>M/PW Display Format: V-1/3B, V-1/2B, V-2/3B, H-1/2B, H- 1/4B, TL Only</li> </ul>	
	• PW Acoustic Output: 0–100%, 10% increments	
	• Spectral Averaging: 5 increments pre-settable	
	Rejection: 15 increments	
	• Gain: 0-85 dB, 1 dB increments	_
	<ul> <li>Wall Filter: 5.5-5,000, 500 Hz, 22 increments: probe and application dependent</li> </ul>	
	• PW Angle Steer: 0 +/- 10, 15, 20°	
	• PRF: 700–19,800 Hz with PW, 2,100–40,000 Hz with CW	
	<ul> <li>Sample Volume Depth: 29.9 increments default pre-settable</li> </ul>	-
	Audio Volume	
	PW Frequency 2–4 steps: probe dependent	

### M-Color Flow Mode

Overlays color on the M-mode trace

### Coded Harmonic Imaging (Tissue Harmonics) (CHI)

Enhances near field resolution for improved small parts imaging as well as far field penetration. Diminishes low frequency amplitude noise and provides clarity to needle, anatomy and motion

### TVI/TVD (Optional)

Tissue Velocity Imaging calculates and color-codes the velocities in tissues

Tissue Velocity Doppler provides spectral information for selected Doppler sample.

### eSmart Trainer (Optional)

Provides modules showing basic scanning techniques with graphics of probe position, anatomy and example clinical images.

#### Patient Follow-up Tool with fusion (Optional)

For monitoring a patient condition over time. Automatically recalls the imaging parameters, comments and body patterns to be identical to your previous exam. Provides an alert if you use a different transducer than last time.

Works in B-Mode, Color Mode and PDI

#### **Quick Save**

Single button push sends single image or entire patient exam to memory stick or network

### Report Writer (Optional)

On-board reporting package automates report writing

Formats various exam results into a report suitable for printing or reviewing on a standard PC Exam results include patient info, exam info, measurements, calculations, images, and comments

Standard templates provided and allows for customization.

#### Needle Recognition Mode (Optional)

Provides accurate display of the needle, anatomy and motion even in Color and Power Doppler.

Includes ability to adjust needle gain and angle.

Available on all linear probes

### System Parameters (Continued)

### 3D (Optional)

Acquisition of Color data provides Automatic rendering of B mode and Color Flow Mode images in 3D.

### 3D Landscape

3D Movie

### **Automatic Optimization**

Auto Tissue Optimization: ATO

Auto Color Flow Optimization: ACO

Auto Spectrum Optimization: ASO

### CrossXBeam

Provides 3, 5, 7 or 9 angles of spatial compounding

Live Side by Side DualView Display

Compatible with: Color Mode, PW, SRI-HD, Coded Harmonic Imaging, Virtual Convex

### SRI-HD

Speckle Reduction Imaging provides multiple levels of speckle reduction

Compatible with/ B-Mode, Color, and 3D imaging

### LOGIQ View (Optional)

Extended field of view imaging that allows viewing and measurement of anatomy that is larger than would fit in a single image possible. Requires manual sweep over anatomy of interest. Renders a panoramic image up to 60 cm, in long axis. It also allows you to see a wider field of view for comparing normal to abnormal anatomy.

### Virtual Convex

Provides wider FOV in the far field

Available on linear probes

### **Virtual Apex**

Provides wider FOV in the near field

Available on Sector probes

### Measurements and Calculations

**B-Mode Calcs** 

Distance

Circumference (Ellipse/Trace)

Area (Ellipse/Trace)

% Stenosis

Angle between 2 lines

Ratios

Depth from Probe Surface

**M-Mode Calcs** 

Distance

Time

Slope

Heart Rate

**Doppler Calcs** 

Velocity

Frequency

Time

Acceleration

Heart Rate

Auto Doppler Trace function with automatic calcs

Time averaged max/mean velocity

Ratios

PI (Pulsatility Index)

RI (Resistivity Index)

### Vascular Measurements/Calculations

Upper/Lower

Artery/Vein

Summary Worksheet

### **Obstetrics Measurements/Calculations**

Gestational Age Calculation

Multi-Gestational Calculation

EFW Calculation

Summary Worksheet

Fetal Trend Graph

# Measurements and Calculations

(Continued)

### **Gynecology Measurements/Calculations**

Ovarian Follicle Measurements

Summary Worksheet

### Urology Measurements/Calculations

Volume Measurements

Summary Worksheet

### Musculoskeletal Measurements/Calculations

Labeled measurements

### Cardiac Measurements/Calculations

Ventricle, Atrium, Value Measurements

Auto IMT. Automated measurement of the intimae media thickness of common carotid artery

Summary Worksheet

### Quantitative Flow Analysis (Optional)

Helps quantify and evaluate the blood flow within a region of interest, to assist with diagnosis and monitoring.

### Probes (all optional)

### C1-5-RS Wide Band Convex

Applications: Abdomen, Obstetrics, Gynecology, Urology, Pediatric/Neonatal, Nerve Block, MSK, ED (FAST, Pleural)

Imaging Frequency: 2.0–5.0 MHz

Biopsy Guide: Multi-angle, disposable with a reusable bracket

### 8C-RS Wide Band Microconvex

Applications: Abdomen, Basic Cardiac, Vascular, Pediatric/Neonatal, Small Parts, Nerve Block, MSK, Rheuma, ED (FAST, Pleural, Ophthalmic)

Imaging Frequency: 4.2–11 MHz

Biopsy Guide Not Available

### **E8C-RS Wide Band Microconvex**

Applications: Obstetrics, Gynecology, Urology

Imaging Frequency: 4.2–10MHz

Biopsy Guide: Fixed Angle; Reusable Bracket, Disposable Sleeve

### **3Sc-RS Wide Band Phased Array**

Applications: Abdomen, Obstetrics, Gynecology, Basic Cardiac, Vascular, Urology, Pediatric/Neonatal, ED (FAST, Pleural, Orbits)

#### Frequency: 1.7–4.0 MHz

Biopsy Guide Available: Multi Angle, Reusable Bracket, Disposable Sleeve.

### 6S-RS Wide Band Phased Array

Applications: Abdomen, Basic Cardiac, Vascular, Urology, Pediatric/Neonatal, ED (FAST, Pleural)

Imaging Frequency: 3.0-7.0 MHz

Biopsy Guide Not Available

### 9L-RS Wide Band Linear

Applications: Abdomen, Vascular, Pediatric/Neonatal, Small Parts, Nerve Block, MSK, Rheuma, ED (Fast, Pleural)

Imaging Frequency: 3.0–9.0 MHz

Biopsy Guide: Multi Angle; Reusable Bracket, Disposable Sleeve

### 12L-RS Wide Band Linear

Applications: Vascular, Pediatric/Neonatal, Small Parts, Nerve Block, MSK, Rheuma, ED (Fast, Pleural, Ophthalmic)

Imaging Frequency: 4.2–13.0 MHz

Biopsy Guide Multi Angle and Out-of-Plane; Reusable Bracket, Disposable Sleeve

### L4-12t-RS Wide Band Linear With Buttons

Applications: Vascular, Pediatric/Neonatal, Small Parts, Nerve Block, MSK, Rheuma, ED (Fast, Pleural, Ophthalmic)

### Imaging Frequency: 4.2–13.0 MHz

Biopsy Guide Multi Angle and Out-of-Plane; Reusable Bracket, Disposable Sleeve

# Probes (all optional) (Continued)

### L8-18i-RS Wide Band Linear

Applications: Vascular, Small Parts, Nerve Block, MSK, Rheuma, ED (Fast, Pleural)

Imaging Frequency: 6.7–18.0 MHz

Biopsy Guide Not Available

### L10-22-RS Wide Band Linear

Applications: Vascular, Small Parts, Nerve Block, MSK, Rheuma

Imaging Frequency: 10.0-22.0 MHz

Biopsy Guide Not Available

6Tc-RS Wide Band Convex

Applications: Cardiac intra-operative

Imaging Frequency: 3–8 MHz

Biopsy Guide: Not Available

# Safety Conformance

### LOGIQ *e* is:

Certified to AAMI/ANSI ES60601-1:2005/(R)2012

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Certified to CAN/CSA-C 22.2 No.60601-1:08 by an SCC accredited Test Lab
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CE Marked to Council Directive 93/42/EEC on Medical Devices

	2/19/EU on Waste Electrical and
Electronic Equipment (WEEE) re	equirement.

Conforms to the following
standards:

- IEC 60601-1 Electrical medical equipment
- IEC 60601-1-2 Electromagnetic compatibility
- IEC 60601-1-6 Medical Electrical Equipment—Part 6: General Requirements for safety—Usability
- IEC60601-2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment
- ISO 10993 Biological evaluation of medical devices
- NEMA UD3 Acoustic output display (MI, TIS, TIB, TIC)

### About GE Healthcare

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter - great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

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