NextGen LOGIQ™ e Ultrasound

Product Description

The NextGen LOGIQ™ 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**
  - 70 mm (2.75 in) console only
  - 100 mm (3.94 in) with handle
- **Width**
  - 295 mm (11.61 in) console only
  - 343 mm (13.50 in) with handle
- **Length**
  - 346 mm (13.62 in) console only
  - 375 mm (14.76 in) with handle
- **Weight with Battery**
  - Approximately 5.2 Kg (11.5 lbs)

#### 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**
- **Operating System – Microsoft® Windows® 7**

#### 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:** 57 kg (125.7 lbs) without accessories
- **Weight:** 64 kg (141.1 lbs) with Extended Life Battery

#### 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
- **Weight:** 35.5 kg (78.3 lbs) with 3 Probe Port

### 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)

#### Applications (Continued)
- 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

#### 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™ 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

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#### Standard Features (Continued)
- Integrated Solid State Drive
- Automatic Optimization
- CrossXBeam™
### System Overview (Continued)

#### Software Options (Continued)
- **Flow Quantitative Analysis**
- **Patient Follow-up Tool with fusion**
- **M-Color Flow Mode (CM)**
- **Anatomical M-Mode (AMM)**
- **TVI/TVD**
- **High-Res PDI**
- **Ophthalmic**

#### Hardware Options
- **Footswitch**
- **Printer**
- **CWD**
- **USB ECG (AHA/IEC)**
- **Barcode Scanner**
- **External DVD R/W storage**

#### Cart Options
- **Docking Cart**
  - 3 probe port
  - Extended Life Battery
- **Isolation Cart**
  - 3 probe port
  - Storage Basket
  - Storage drawer

#### Display Modes
- **Simultaneous Capability**
  - B/PW or TVI/TVD
  - B/CFM or PDI
  - B/M or AMM
  - Dual B (B/B)
  - Dual B + CFM or PDI
  - Needle Recognition + CFM (PDI)
  - Real-time Triplex Mode

- **Selectable Alternating Modes**
  - Needle Recognition
  - B/M
  - B/PW
  - B/CW
  - B + CFM (PDI)/M
  - B + CFM (PDI)/PW
  - B + CFM (PDI)/CW
  - 3D – Mode

#### Display Modes (Continued)
- **Multi image Split Screen**
  - Live and/or frozen
  - B + B/CFM or PDI
  - Independent Cine playback
  - Conventional or wide screen display
  - Conventional or wide screen display

- **Zoom: Read/Write Zoom**
  - Colorized Image
    - Colorized B
    - Colorized M
    - Colorized PW
    - Colorized CW

- **Timeline Display**
  - Independent Dual B/PW/CW Display
  - Display Formats: Top/Bottom 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**

- **Virtual Convex**

- **Display Annotation**
  - **Institution/Hospital Name**
  - **Date:** 3 types selectable MM/DD/YY, DD/MM/YY, YY/MM/DD
  - **Time:** 2 types selectable 24 hours, 12 hours
  - **Operator Identification**
  - **Patient Name:** First, Last, & Middle
  - **Patient Identification:** 64 characters
  - **Gestational Age from LMP/EDD/GA/BBT**
  - **Power Output Readout**
    - MI: Mechanical Index
    - TIS: Thermal Index Soft Tissue
    - TIC: Thermal Index Cranial (Bone)
    - TIB: Thermal Index Bone

- **System Status (real-time or frozen)**

- **Probe Orientation Marker:** Coincides with orientation marking on the image monitor
### 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 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: 7 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: 0.5-33 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
- CF/PDI Acoustic Output: 0-100%; 2%, 5%, 10% increments
- Packet Size: 8-24: probe dependent
**System Parameters** (Continued)

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

<table>
<thead>
<tr>
<th>Scan Parameters</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Density</td>
<td>5 increments</td>
</tr>
<tr>
<td>Frame Average</td>
<td>7 increments</td>
</tr>
<tr>
<td>PRF</td>
<td>0.3K–22K Hz: probe dependent</td>
</tr>
<tr>
<td>Spatial Filter</td>
<td>6 steps</td>
</tr>
<tr>
<td>Gain</td>
<td>0–40 dB, 0.5 dB increments</td>
</tr>
<tr>
<td>Wall Filter</td>
<td>4 steps: application and probe dependent</td>
</tr>
<tr>
<td>Angle/Width</td>
<td>deg, mm: probe dependent</td>
</tr>
<tr>
<td>CF/PDI Vertical Size (mm)</td>
<td>default presettable</td>
</tr>
<tr>
<td>CF/PDI Center Depth (mm)</td>
<td>default presettable</td>
</tr>
<tr>
<td>CF/PDI Frequency</td>
<td>2–4 steps: probe dependent</td>
</tr>
<tr>
<td>CF/PDI Focal Number</td>
<td>1</td>
</tr>
<tr>
<td>Color Map</td>
<td>14 types at most: application and probe dependent</td>
</tr>
<tr>
<td>Color Threshold</td>
<td>10–100%, 10% increments</td>
</tr>
</tbody>
</table>

### Power Doppler Imaging Mode (PDI)

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

<table>
<thead>
<tr>
<th>Scan Parameters</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDI Map</td>
<td>14 types</td>
</tr>
<tr>
<td>CF/PDI Acoustic Output</td>
<td>0-100%; 2%, 5%, 10% increments</td>
</tr>
<tr>
<td>Packet Size</td>
<td>8-24: probe dependent</td>
</tr>
<tr>
<td>Spatial Filter</td>
<td>6 steps</td>
</tr>
<tr>
<td>Frame Average</td>
<td>7 steps: probe dependent</td>
</tr>
<tr>
<td>PRF</td>
<td>0.3K-11.4K Hz: depth dependent</td>
</tr>
<tr>
<td>Power Threshold</td>
<td>10–100%, 10% increments</td>
</tr>
<tr>
<td>CF/PDI Vertical Size (mm)</td>
<td>default presettable</td>
</tr>
<tr>
<td>CF/PDI Center Depth (mm)</td>
<td>default presettable</td>
</tr>
<tr>
<td>CF/PDI Frequency</td>
<td>2–4 increments: probe dependent</td>
</tr>
<tr>
<td>CF/PDI Focal Number</td>
<td>1</td>
</tr>
<tr>
<td>Gain</td>
<td>0–40 dB, 0.5 dB increments</td>
</tr>
<tr>
<td>Wall Filter</td>
<td>4 increments: probe dependent</td>
</tr>
<tr>
<td>CF/PDI Frequency</td>
<td>2–4 increments: probe dependent</td>
</tr>
</tbody>
</table>

### High-Res PDI (Optional)

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

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

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.

<table>
<thead>
<tr>
<th>Scan Parameters</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweep Speed</td>
<td>8 increments</td>
</tr>
<tr>
<td>M Color</td>
<td>9 types</td>
</tr>
<tr>
<td>B/M Acoustic Output</td>
<td>0-100%; 2%, 5%, 10% increments</td>
</tr>
<tr>
<td>Rejection</td>
<td>6 increments</td>
</tr>
<tr>
<td>Gray Scale Map</td>
<td>12 types</td>
</tr>
<tr>
<td>M Gain</td>
<td>+/- 20 dB delta from B, 1 dB increments</td>
</tr>
<tr>
<td>Compression</td>
<td>0.5-1.5, 0.1 increments</td>
</tr>
</tbody>
</table>
System Parameters (Continued)

**PW/CW Mode**

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.

**Scan Parameters**

- Maximum and Minimum Velocity Scales
- 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%
- SV Gate: 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 mm: application dependent
- Angle Correct: +/- 90°, 1° step
- Spectral Color: 6 types
- PW Sweep Speed: 8 increments
- Invert: On/Off
- PW Acoustic Output: 0–100%, 10% increments
- Spectral Averaging: 5 increments pre-settable
- Rejection: 15 increments
- Gain: 0-85 dB, 1 dB increments
- Wall Filter: 5.5-5,000 Hz, 27 increments: probe and application dependent
- PW Angle Steer: 0 +/- 10, 15, 20°
- PRF: 700–19,800 Hz with PW, 2,100–40,000 Hz with CW
- Sample Volume Depth: 33 increments default pre-settable
- 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**

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**

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 and convex 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)

<table>
<thead>
<tr>
<th>Gynecology Measurements/Calculations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ovarian Follicle Measurements</td>
</tr>
<tr>
<td>Summary Worksheet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Urology Measurements/Calculations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume Measurements</td>
</tr>
<tr>
<td>Summary Worksheet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Musculoskeletal Measurements/Calculations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labeled measurements</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cardiac Measurements/Calculations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventricle, Atrium, Value Measurements</td>
</tr>
<tr>
<td>Auto IMT. Automated measurement of the intima media thickness of common carotid artery</td>
</tr>
<tr>
<td>Summary Worksheet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantitative Flow Analysis (Optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helps quantify and evaluate the blood flow within a region of interest, to assist with diagnosis and monitoring.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Probes (all optional)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>C1-5-RS Wide Band Convex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications: Abdomen, Obstetrics, Gynecology, Urology, Pediatric/Neonatal, Nerve Block, MSK, ED (FAST, Pleural)</td>
</tr>
<tr>
<td>Imaging Frequency: 2.0–5.0 MHz</td>
</tr>
<tr>
<td>Biopsy Guide: Multi-angle, disposable with a reusable bracket</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3Sc-RS Wide Band Phased Array</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications: Abdomen, Obstetrics, Gynecology, Basic Cardiac, Vascular, Urology, Pediatric/Neonatal, ED (FAST, Pleural, Orbits)</td>
</tr>
<tr>
<td>Frequency: 1.7–4.0 MHz</td>
</tr>
<tr>
<td>Biopsy Guide Available: Multi Angle, Reusable Bracket, Disposable Sleeve</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6S-RS Wide Band Phased Array</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications: Abdomen, Basic Cardiac, Vascular, Urology, Pediatric/Neonatal, ED (FAST, Pleural)</td>
</tr>
<tr>
<td>Imaging Frequency: 3.0–7.0 MHz</td>
</tr>
<tr>
<td>Biopsy Guide Not Available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9L-RS Wide Band Linear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications: Abdomen, Vascular, Pediatric/Neonatal, Small Parts, Nerve Block, MSK, Rheuma, ED (Fast, Pleural)</td>
</tr>
<tr>
<td>Imaging Frequency: 3.0–9.0 MHz</td>
</tr>
<tr>
<td>Biopsy Guide: Multi Angle; Reusable Bracket, Disposable Sleeve</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12L-RS Wide Band Linear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications: Vascular, Pediatric/Neonatal, Small Parts, Nerve Block, MSK, Rheuma, ED (Fast, Pleural, Ophthalmic)</td>
</tr>
<tr>
<td>Imaging Frequency: 4.2–13.0 MHz</td>
</tr>
<tr>
<td>Biopsy Guide Multi Angle and Out-of-Plane; Reusable Bracket, Disposable Sleeve</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12t-RS Wide Band Linear With Buttons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications: Vascular, Pediatric/Neonatal, Small Parts, Nerve Block, MSK, Rheuma, ED (Fast, Pleural, Ophthalmic)</td>
</tr>
<tr>
<td>Imaging Frequency: 4.2–13.0 MHz</td>
</tr>
<tr>
<td>Biopsy Guide Multi Angle and Out-of-Plane; Reusable Bracket, Disposable Sleeve</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8C-RS Wide Band Microconvex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications: Abdomen, Basic Cardiac, Vascular, Pediatric/Neonatal, Small Parts, Nerve Block, MSK, Rheuma, ED (FAST, Pleural, Ophthalmic)</td>
</tr>
<tr>
<td>Imaging Frequency: 4.2–11 MHz</td>
</tr>
<tr>
<td>Biopsy Guide Not Available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E8C-RS Wide Band Microconvex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications: Obstetrics, Gynecology, Urology</td>
</tr>
<tr>
<td>Imaging Frequency: 4.2–10 MHz</td>
</tr>
<tr>
<td>Biopsy Guide: Fixed Angle; Reusable Bracket, Disposable Sleeve</td>
</tr>
</tbody>
</table>
### Probes (all optional) (Continued)

<table>
<thead>
<tr>
<th>Probe Code</th>
<th>Description</th>
<th>Applications</th>
<th>Imaging Frequency</th>
<th>Biopsy Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>L8-18i-RS</td>
<td>Wide Band Linear</td>
<td>Vascular, Small Parts, Nerve Block, MSK, Rheuma, ED (Fast, Pleural)</td>
<td>6.7–18.0 MHz</td>
<td>Not Available</td>
</tr>
<tr>
<td>L10-22-RS</td>
<td>Wide Band Linear</td>
<td>Vascular, Small Parts, Nerve Block, MSK, Rheuma</td>
<td>10.0–22.0 MHz</td>
<td>Not Available</td>
</tr>
<tr>
<td>6Tc-RS</td>
<td>Wide Band Convex</td>
<td>Cardiac intra-operative</td>
<td>3–8 MHz</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

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### Safety Conformance

**LOGIQ e is:**
- Certified to AAMI/ANSI ES60601-1:2005/(R)2012
- Certified to CAN/CSA-C 22.2 No.60601-1:08 by an SCC accredited Test Lab
- Compliant with DIRECTIVE 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) requirement.

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, TICI)
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