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LOGIQ S7 Expert

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Product Description

The LOGIQ S7 Expert is a highly mobile and easy to use, performance multipurpose color Doppler imaging system, designed for Obstetrics, Gynecology, Cardiology, Vascular, Urology, Small Parts, Pediatric, Neonatal, Transcranial, and Abdominal applications.

General Specifications

Dimensions and Weight

- Height
  - Maximum: 1750 mm (68.9 in)
  - Minimum: 1115 mm (43.9 in)
- Width
  - Keyboard: 500 mm (19.7 in)
  - Caster: 620 mm (24.4 in)
- Depth
  - Maximum: 856mm (33.7 in)
  - Caster: 790 mm (31.1 in)
- Weight (without peripherals)
  - 90 kg/ 198 lbs

Electrical Power

- Voltage: 100-120 Vac or 220-240 Vac
- Frequency: 50/60 Hz
- Power consumption maximum of 900 VA with peripherals

Console Design

- 4 Active Probe Ports, 1 non imaging
- Integrated HDD and DVD-R/W
- On-board Storage for Peripherals
- Integrated speakers
- Probe Holders
- Gel Holder / Warmer
- Front and Rear Handles

User Interface

Operator Keyboard

- Ergonomic full size Keyboard Swivel-Adjustable, Height-Adjustable
- 8 TGC pods
- 7" (177.8 mm) wide LCD touch screen

Monitor

- 19" (482.6 mm) high-resolution LCD
- Articulating Monitor arm

System Overview

Applications, Calculations for

- Abdominal
- Obstetrical
- Gynecological
- Breast
- Small parts and superficial
- Musculoskeletal
- Vascular
- Urological
- Endocavitary
- Pediatric and Neonatal
- Transcranial
- Cardiac

Scanning Methods

- Electronic Sector
- Electronic Convex
- Electronic Micro Convex
- Electronic Linear
- Real Time 4D Volume Sweep

Transducer Types

- Sector Phased Array
- Convex Array
- Microconvex Array
- Linear Array
- Matrix Array
- Single CW (Pencil) Probes
- Volume Probes (4D)

Operating Modes

- B-Mode
- Coded Harmonic Imaging
- M-Mode
- Color Flow Mode (CFM)
- Power Doppler Imaging (PDI)
- PW Doppler with High PRF
- M-Color Flow Mode
- Anatomical M-Mode
- Curved Anatomical M-Mode
- B-Flow/B-Flow Color (Option)
- Extended Field of View (LOGIQView Option)
- Coded Contrast Imaging (Option)
- CW Doppler Mode (option)
- TVI Mode (Option)
- Elastography (Option)
- 3D/4D Volume Modes (Option)

System Standard Features

- Advanced user interface with high resolution 7" wide LCD touch screen
- Automatic Optimization
- CrossXBeam compounding
- Speckle Reduction Imaging (SRI-HD)
- Fine Angle Steering
- Coded Harmonic Imaging
- Virtual Convex
- Patient information Database
- Image Archive on integrated CD/DVD and hard drive

- Raw Data Analysis
- Real-time automatic Doppler calculations
- OB Calculations
- Fetal Trending
- Multigestational Calculations
- Hip Dysplasia Calculations
- Gynecological Calculations
- Vascular Calculations
- Urological Calculations
- Renal Calculations
- Cardiac Calculations
- Remote capability: InSite ExC
- On-board electronic documentation
- MPEGVue
- Key Macro
- Network Storage
- Quick Save
- Quick Patient Entry

System Options

- Auto IMT
- Elastography
- Elastography Q-Analysis (not available in the United States)
- Advanced 3D
- DICOM 3.0 Connectivity
- LOGIQView
- B-Flow/B-Flow Color
- CF/PDI Quantification
- B Steer+
- Stress Echo
- Tissue Velocity Imaging (TVI) with Q-Analysis
- Scan Assistant
- Report Writer
- Coded Contrast Imaging
- ECG + AHA/IEC Cables
- CW Doppler
- DVR Kit
- Real Time 4D
- 4D TUI
- VOCAL
- VCI Static
- Cabinet: High/Mid/Low
- Drawer
- Small Probe Adaptor
- Vertical Endocavitary Probe Holder
- Side Probe Holder
- Probe Cable Hanger
- 3-Pedal Foot Switch
- Isolation transformer

Peripheral Options

- Integrated options for
  - Digital BW thermal printer
  - Digital A5 Color thermal printer
  - DVD video recorder
- Digital A6 Color thermal printer
- External USB printer connection
- HDMI output available for compatible devices
- Foot Switch with programmable functionality
- Console Protective Cover
- Isolation transformer

Display Modes

- Live and Stored Display Format: Full size and split screen - both w/ thumbnails for still and Cine
- Review Image Format: 4x4 and "thumbnails" for still and Cine
- Simultaneous Capability
- B or CrossXBeam /PW
- B or CrossXBeam /CFM or PDI
- B/M
- B/CrossXBeam
- Real-time Triplex Mode (B or CrossXBeam + CFM or PDI/PW or CW(Option))
- Selectable alternating Modes
- B or CrossXBeam /PW
- B or CrossXBeam + CFM (PDI)/PW(CW(Option))
- B/CW (Option)
- Multi-image (split/quad screen)
- Live and/or frozen
- B or CrossXBeam + B or CrossXBeam /CFM or PDI
- Independent Cine playback
- Time line display
- Independent Dual B or CrossXBeam /PW Display
- CW
- Display Formats
  - Top/ Bottom selectable format
  - Side/Side selectable format
- Virtual Convex
- Timeline only

Display Annotation

- Patient Name: First, Last and Middle
- Patient ID
- 2nd Patient ID
- Age, Sex and Birth Date
- Hospital Name
- Date format: 3 types selectable
  - MM/DD/YY
  - DD/MM/YY
  - YY/MM/DD
- Time format: 2 types selectable
  - 24 hours
  - 12 hours
- Gestational Age from
  - LMP
  - EDD
  - GA
  - BBT
- Displayed Acoustic Output
  - TIS: Thermal Index Soft Tissue
  - TIC: Thermal Index Cranial (Bone)
  - TIB: Thermal Index Bone
  - MI: Mechanical Index
- % of Maximum Power output
- Probe Name
- Map names
- Probe Orientation
- Depth Scale Marker
- Lateral Scale Marker
- Focal Zone Markers
- Image Depth
- Zoom Depth
- B-Mode
- Gain
- Dynamic Range
- Imaging Frequency
- Frame Averaging
- Acoustic Frame Rate
- Gray Map
- SRI-HD
- M-Mode
- Gain
- Dynamic Range
- Time Scale
- Doppler Mode
- Gain
- Angle
- Sample Volume Depth and Width
- Wall Filter
- Velocity and/or Frequency Scale
- Spectrum Inversion
- Time Scale
- PRF
- Doppler Frequency
- Color Flow Mode
- Line Density
- Frame Averaging
- Packet Size
- Color Scale: 3 types

  - Power
  - Directional PDI
  - Symmetrical Velocity Imaging
- Color Velocity Range and Baseline
- Color Threshold Marker
- Color Gain
- PDI
- Inversion
- Doppler Frequency
- TGC Curve
- Cine Gage, Image Number / Frame Number
- Body Pattern: Multiple human and animal types
- Application Name
- Measurement Results
- Operator Message
- Biopsy Guide Line and Zone
- Heart Rate

General System Parameters

System Setup

- Pre-programmable Categories
- User Programmable Preset Capability
- Factory Default Preset Data
- Languages: English, French, German, Spanish, Italian, Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian, Japanese(message only)
- OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe, and ASUM
- User Defined Annotations
- Body Patterns
- Customized Comment Home Position

Complete User Manual available on-board through Help (F1)

User Manual and Service Manual are included on CD with each system. A printed manual is available upon request.

CINE Memory/Image Memory

- 384 MB of Cine Memory
- Selectable Cine Sequence for Cine Review
- Prospective Cine Mark
- Measurements/ Calculations and Annotations on Cine Playback
- Scrolling timeline memory
- Dual Image Cine Display
- Quad Image Cine Display
- Cine Gauge and Cine Image Number Display
- Cine Review Loop
- Cine Review Speed

Image Storage

- On-board database of patient information from past exams
- Storage Formats:
  - DICOM – compressed/ uncompressed, single/ multiframe, with/ without Raw Data
  - Export JPEG,JPEG2000, WMV (MPEG 4) and AVI formats
- Storage Devices:
  - USB Memory Stick: 64MB to 4GB (for exporting individual images/clips)
  - CD-RW storage: 700MB
  - DVD storage: -R (4.7GB)
  - Hard Drive Image Storage: ~112GB
- Compare old images with current exam
- Reload of archived data sets

Connectivity & DICOM

- Ethernet network connection
- DICOM 3.0 (Optional)
- Verify
- Print
- Store
- Modality Worklist
- Storage Commitment
- Modality Performed Procedure Step (MPPS)
- Media Exchange
- Off network / mobile storage queue
- Query / Retrieve
- Public SR Template
  - Structured Reporting – compatible with vascular and OB standard
- Remote capability InSite ExC

Physiological Input Panel (Option)

- Physiological Input
- ECG, 2 lead
- Dual R-Trigger
- Pre-settable ECG R Delay Time
- Pre-settable ECG Position
- Adjustable ECG Gain Control
- Automatic Heart Rate Display

Report Writer (Option)

- On-board reporting package automates report writing
- Formats various exam results into a report suitable for printing or reviewing on a standard PC
- Exam result reports can include patient info, exam info, measurements, calculations, images, comments and physician diagnosis
- Standard templates provided
- Customizable templates

Scanning Parameters

- Displayed Imaging Depth: 0 – 33 cm
- Minimum Depth of Field: 0 – 2 cm (Zoom) (probe dependent)
- Maximum Depth of Field: 0 – 33 cm (probe dependent)
- Continuous Dynamic Receive Focus / Continuous Dynamic Receive Aperture
- Adjustable Dynamic Range
- Adjustable Field of View (FOV)
- Image Reverse: Right/ Left
- Image Rotation of 0°, 180°

Digital B-Mode

Adjustable:

- Acoustic Power
- Gain
- Dynamic Range
- Frame Averaging
- Gray Scale Map
- Frequency
- Line Density
- Scanning Size (FOV or Angle - depending on the probe, see probe specifications)
- B Colorization
- Reject
- Suppression
- SRI-HD
- Edge Enhance

Digital M-Mode

Adjustable:

- Acoustic Power
- Gain
- Dynamic Range
- Gray Scale Map
- Frequency
- Sweep Speed
- M Colorization
- M Display Format
- Rejection

Anatomical M-Mode
- M-Mode cursor adjustable at any plane
- Can be activated from a Cine loop from a live or stored image
- M and A capability
- Available with Color Flow Mode
- Curved Anatomical M-Mode

Digital Spectral Doppler Mode
Adjustable:
- Acoustic Power
- Gain
- Dynamic Range
- Gray Scale Map
- Transmit Frequency
- Wall Filter
- PW Colorization
- Velocity Scale Range
- Sweep Speed
- Sample Volume Length
- Angle Correction
- Steered Linear
- Spectrum Inversion
- Trace Method
- Baseline Shift
- Doppler Auto Trace
- Time Resolution
- Compression
- Trace Direction
- Trace Sensitivity

Digital Color Flow Mode
Adjustable:
- Acoustic Power
- Color Maps, including velocity-variance maps
- Gain
- Velocity Scale Range
- Wall Filter
- Packet Size
- Line Density
- Spatial Filter
- Steering Angle
- Baseline Shift
- Frame Average
- Threshold
- Accumulation mode
- Sample Volume Control
- Flash Suppression
- Quantification (Option)

Digital Power Doppler Imaging
Adjustable:
- Acoustic Power
- Color Maps including velocity-variance maps
- Gain
- Velocity Scale Range
- Wall Filter
- Packet Size
- Line Density
- Spatial Filter
- Steering Angle
- Frame Average
- Threshold
- Accumulation mode
- Sample Volume Control
- Flash Suppression

Continuous Wave Doppler (Option)
Adjustable:
- Acoustic Power
- Gain
- Dynamic Range
- Gray Scale Map
- Transmit Frequency
- Wall Filter
- CW Colorization
- Velocity Scale Range
- Sweep Speed
- Angle Correction
- Spectrum Inversion
- Trace Method
- Baseline Shift
- Doppler Auto Trace
- Compression
- Trace Direction
- Trace Sensitivity

Automatic Optimization
- Optimize B-Mode image to improve contrast resolution.
- Selectable amount of contrast resolution improvement (low, medium, high)
- Auto-Spectral Optimize adjusts
  - Baseline
  - Invert
  - PRF (on live image)
  - Angle correction

Coded Harmonic Imaging
- Available on all 2D probes

B-Flow (Option)
- Available on C1-5-D, 9L-D, ML6-15, 11L-D and L8-18i-D probes
- Background: On/Off
- Sensitivity/PRI
- Line Density
- Edge Enhance
- Frame Average
- Gray Scale Map
- Tint Map
- Dynamic Range
- Rejection
- Gain
- Dual Beam
- B-Flow Color
- Accumulation

Coded Contrast Imaging (Option)
- Available on C1-5-D probe
- 2 Contrast Timers
- Timed Updates: 0.05 – 10 seconds
- Accumulation mode, six levels
- Maximum Enhance Mode
- Flash
- Time Intensity Curve (TIC) Analysis
- Auto MI control
- The LOGIQ S7 Expert is designed for compatibility with commercially available ultrasound contrast agents. Because the availability of these agents is subject to government regulation and approval, product features intended for use with these agents may not be commercially marketed nor made available before the contrast agent is cleared for use. Contrast related product features are enabled only on systems for delivery to an authorized country or region of use.

LOGIQView (Option)
- Extended Field of View Imaging
- Available on 9L-D, ML6-15, 11L-D, L8-18i-D, 3CRF-D, C1-5-D, IC5-9-D, 3Sp-D, RAB4-8-D, 8C and S4-10-D probes
- For use in B-Mode
- CrossXBeam is available on linear probes
- Auto detection of scan direction
- Pre or post-process zoom
- Rotation
- Auto fit on monitor
- Measurements in B-Mode

3D
- Allows unlimited rotation and planar translations
- 3D reconstruction from Cine sweep

Advanced 3D (Option)

- Acquisition of Color data
- Automatic rendering
- 3D Landscape technology
- 3D Movie

Scan Assistant (Option)

- Factory Programs
- User defined programs
- Steps include image annotations, mode transitions, basic imaging controls and measurement initiation

Elastography (Option)

- Available on ML6-15, 9L-D, C1-5-D, IC5-9-D and 11L-D probes
- Quantification (Option, not available in the United States)

TVI (Option)

- Myocardial Doppler Imaging with color overlay on tissue image
- Available on the sector probes
- Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information
- Curved Anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane
- Q-Analysis: Multiple Time Motion trace display from selected points in the myocardium

Stress Echo (Option)

- Advanced and flexible Stress Echo examination capabilities
- Provides exercise and pharmacological protocol templates
- 8 default templates
- Template editor for user configuration of existing templates or creation of new templates
- Reference scan display during acquisition for stress level comparison (dual screen)
- Baseline level/Previous level selectable
- Raw data continuous capture
- Over 100 sec available
- Wall motion scoring (bulls-eye and segmental)
- Smart stress: Automatically set up various scanning parameters (for instance geometry, frequency, gain etc.) according to same projection on previous level

Virtual Convex

- Provides a convex field of view
- Compatible with CrossXBeam
- Available on all linear and sector transducers

SRI-HD

- Speckle Reduction Imaging
- Provides multiple levels of speckle reduction
- Compatible with Side by Side DualView Display
- Compatible with ALL linear, convex and sector transducers
- Compatible w/ B-Mode, Color, Contrast Agent and 3D imaging
-

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
- Available on 9L-D, ML6-15, 11L-D, L8-18i-D, 3CRF-D, C1-5-D, 8C, RAB4-8-D and IC5-9-D probes

Controls Available While "Live"

- Write Zoom
- B/M/CrossXBeam-Mode
- Gain
- TGC
- Dynamic Range
- Acoustic Output
- Transmission Focus Position
- Transmission Focus Number
- Line Density Control
- Sweep Speed for M-Mode
- Number of Angles for CrossXBeam
- PW-Mode
- Gain
- Dynamic Range
- Acoustic Output
- Transmission Frequency
- PRF
- Wall Filter
- Spectral Averaging
- Sample Volume Gate
  - Length
  - Depth
- Velocity Scale
- Color Flow Mode
- CFM Gain
- CFM Velocity Range
- Acoustic Output
- Wall Echo Filter
- Packet Size
- Frame Rate Control
- CFM Spatial Filter
- CFM Frame Averaging
- CFM Line Resolution
- Frequency / Velocity Base Line Shift

Controls Available on "Freeze" or Recall

- Automatic Optimization
- SRI-HD
- CrossXBeam – Display non-compounded and compounded image simultaneously in split screen
- 3D reconstruction from a stored Cine loop
- B/M/CrossXBeam Mode
- Gray Map Optimization
- TGC
- Colorized B and M
- Frame Average (loops only)
- Dynamic Range
  - Anatomical M Mode
- Max Read Zoom to 8x
  - Base Line Shift
- Sweep Speed
- PW Mode
- Gray Map
- Post Gain
- Baseline shift
- Sweep Speed
- Invert Spectral wave form
- Compression
- Rejection
- Colorized Spectrum
- Display Format
- Doppler Audio
- Angle Correct
- Quick Angle Correct
- Auto Angle Correct

- Color Flow
- Overall Gain (loops and stills)
- Color Map
- Transparency Map
- Frame Averaging (loops only)
- Flash Suppression
- CFM Display Threshold
- Spectral Invert for Color/Doppler
- Anatomical M-Mode on Cine loop

Measurements / Calculations
General B-Mode

- Depth and Distance
- Circumference (Ellipse / Trace)
- Area (Ellipse / Trace)
- Volume (Ellipsoid)
- % Stenosis (Area or Diameter)
- Angle between two lines

General M-Mode

- M-Depth
- Distance
- Time
- Slope
- Heart Rate

General Doppler Measurements/ Calculations

- Velocity
- Time
- A/B Ratio (Velocities / Frequency Ratio
- PS (Peak Systole)
- ED (End Diastole)
- PS/ED (PS/ED Ratio)
- ED/PS (ED/PS Ratio)
- AT (Acceleration Time)
- ACCEL (Acceleration)
- TAMAX (Time Averaged Maximum Velocity
- Volume Flow (TAMEAN and Vessel Area)
- Heart Rate
- PI (Pulsatility Index)
- RI (Resistivity Index)

Real-time Doppler Auto Measurements / Calculations

- PS (Peak Systole)
- ED (End Diastole)
- MD (Minimum Diastole)
- PI (Pulsatility Index)
- RI (Resistivity Index)
- AT (Acceleration Time)
- ACC (Acceleration)
- PS/ED (PS/ED Ratio)
- ED/PS (ED/PS Ratio)
- HR (Heart Rate)
- TAMAX (Time Averaged Maximum Velocity)
- PVAL (Peak Velocity Value)
- Volume Flow (TAMEAN and Vessel Area)

OB Measurements / Calculations

- Gestational Age by:
  - GS (Gestational Sac)
  - CRL (Crown Rump Length)
  - FL (Femur Length)
  - BPD (Biparietal Diameter)
  - AC (Abdominal Circumference)
  - HC (Head Circumference)
  - APTD x TTD (Anterior/Posterior Trunk Diameter by Transverse Trunk Diameter)
  - FTA (Fetal Trunk Cross-sectional Area)
  - HL (Humerus Length)
  - BD (Binocular Distance)
  - FT (Foot Length)
  - OFD (Occipital Frontal Diameter)
  - TAD (Transverse Abdominal Diameter)
  - TCD (Transverse Cerebellum Diameter)
  - THD (Thorax Transverse Diameter)
  - TIB (Tibia Length)
  - ULNA (Ulna Length)
- Estimated Fetal Weight (EFW) by:
  - AC, BPD
  - AC, BPD, FL
  - AC, BPD, FL, HC
  - AC, FL
  - AC, FL, HC
  - AC, HC
  - BPD, APTD, TTD, FL
  - BPD, APTD, TTD, SL
- Calculations and Ratios
  - FL/BPD
  - FL/AC
  - FL/HC
  - HC/AC
  - CI (Cephalic Index)
  - AFI (Amniotic Fluid Index)
  - CTAR(Cardio-Thoracic Area Ratio)
- Measurements / Calculations by: ASUM, ASUM 2001, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chitty, Eik-Nes, Ericksen, Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kurtz, Mayden, Mercer, Merz, Moore, Nelson, Osaka University, Paris, Rempen, Robinson, Shepard, Shepard/Warsoff, Tokyo University, Tokyo/Shinozuka, Yarkoni
- Fetal Graphical Trending
- Growth Percentiles
- Multi-Gestational Calculations (4)
- Fetal Qualitative Description (Anatomical survey)
- Fetal Environmental Description (Biophysical profile)
- Programmable OB Tables
- Over 20 selectable OB Calculations
- Expanded Worksheets

GYN Measurements/ Calculations

- Right Ovary Length, Width, Height
- Left Ovary Length, Width, Height
- Uterus Length, Width, Height
- Cervix Length, Trace
- Ovarian Volume
- ENDO (Endometrial thickness)
- Ovarian RI
- Uterine RI
- Follicular measurements
- Summary Reports

Vascular Measurements/ Calculations

- SYS DCCA (Systolic Distal Common Carotid Artery)
- DIAS DCCA (Diastolic Distal Common Carotid Artery)
- SYS MCCA (Systolic Mid Common Carotid Artery)
- DIAS MCCA (Diastolic Mid Common Carotid Artery)
- SYS PCCA (Systolic Proximal Common Carotid Artery)
- DIAS PCCA (Diastolic Proximal Common Carotid Artery)
- SYS DICA (Systolic Distal Internal Carotid Artery)
- DIAS DICA (Systolic Distal Internal Carotid Artery)
- SYS MICA (Systolic Mid Internal Carotid Artery)
- DIAS MICA (Diastolic Mid Internal Carotid Artery)
- SYS PICA (Systolic Proximal Internal Carotid Artery)
- DIAS PICA (Diastolic Proximal Internal Carotid Artery)
- SYS DECA (Systolic Distal External Carotid Artery)

- DIAS DECA (Diastolic Distal External Carotid Artery)
- SYS PECA (Systolic Proximal External Carotid Artery)
- DIAS PECA (Diastolic Proximal External Carotid Artery)
- VERT (Systolic Vertebral Velocity)
- SUBCLAV (Systolic Subclavian Velocity)
- Automatic IMT
- Summary Reports

Urological Calculations

- Bladder Volume
- Prostate Volume
- Lt/Rt Renal Volume
- Generic Volume
- Post-Void Bladder Volume

Probes

3CRF-D Micro Convex Biopsy Probe
- Applications: Abdomen, OB/GYN, Urology
- Biopsy Guide: Single-Angle, disposable with a reusable bracket (40442LR), Multi-Angle with a reusable bracket (H40452LP)

8C Micro Convex Probe
- Applications: Neonatal, Pediatrics
- Biopsy Guide available: None

C1-5-D Convex Probe
- Applications: Abdomen, Vascular, OB/Gyn, Urology
- Biopsy Guide: Multi-Angle, disposable with a reusable bracket (H40432LE)

IC5-9-D Endo Micro Convex Probe
- Applications: OB/GYN, Urology, Transvaginal, Transrectal
- Biopsy Guide: Single Angle, disposable with a disposable bracket (E8385MJ, E8333JB), Reusable bracket (H40412LN)

ML6-15 Matrix Array Linear Probe
- Applications: Small parts, Vascular, Neonatal, Pediatrics
- Biopsy Guide: Multi-Angle, disposable with a reusable bracket (H40432LJ)

11L-D Linear Probe
- Applications: Vascular, Small Parts, Neonatal, Pediatrics
- Biopsy Guide: Multi-Angle, disposable with a reusable bracket (H40432LC)

9L-D Linear Probe
- Applications: Vascular, Small Parts, Pediatric, Abdomen
- Biopsy Guide: Multi-Angle, disposable with a reusable bracket (H4906BK)

L8-18i-D Linear Probe
- Applications: Vascular, Small Parts, Neonatal, Pediatrics
- Biopsy Guide available: None

3Sp-D Phased Array Sector Probe
- Applications: Cardiac, Transcranial, Abdomen
- Biopsy Guide: Multi-Angle, Reusable bracket (H46222LC)

S4-10-D Phased Array Sector Probe
- Applications: Pediatrics, Neonatal, Abdomen
- Biopsy Guide available: None

RAB4-8-D Convex Volume Probe
- Applications: Abdomen, OB/GYN, Urology
- Biopsy Guide: Single-Angle, disposable with reusable bracket (H46701AE), single angle reusable (H48621Y)

P2D CW Split Crystal Probe
- Applications: Cardiac, Vascular

P6D CW Split Crystal Probe
- Applications: Cardiac, Vascular

Inputs and Outputs

- HDMI Out
- Ethernet Network (RJ45)
- External Audio Out
- USB (2x in front, 1x in rear)
- AC Power Input

Safety Conformance

The LOGIQ S7 Expert is:

- Classified to UL 60601-1 by a Nationally Recognized Test Lab
- Certified to CAN/CSA-C22.2 No.601.1-M90 by an SCC accredited Test Lab
- CE Marked to Council Directive 93/42/EEC on Medical Devices
- Conforms to the following standards for safety:
- IEC 60601-1 Medical electrical equipment –Part 1: General requirements for safety
- IEC 60601-1-1 Medical electrical equipment – Part 1-1 General requirements for safety – Collateral Standard: Safety requirements for medical electrical systems
- IEC 60601-1-2 Medial electrical equipment –Part 1-2 General requirements for safety – Collateral Standard: Electromagnetic compatibility – requirements and tests
- IEC 60601-1-4 Medical electrical equipment Part 1-4 General requirements for safety – Collateral Standard: programmable electrical medical systems
- IEC 60601-1-6 Medical electrical equipment Part 1-6 General requirements for basic safety and essential performance – Collateral Standard: Usability
- IEC 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment
- ISO 10993-1 Biological evaluation of medical devices – Part 1 Evaluation and testing
- NEMA UD2 Acoustic output measurement standard for diagnostic ultrasound equipment
- NEMA UD3 Standard for real time display of thermal and mechanical acoustic output indices on diagnostic ultrasound equipment (MI, TIS, TIB, TIC

EMC Emissions Group 1 Class B device requirements as per Sub clause 4.2 of CISPR 11