

LOGIQ P8

MAKE IT EASY. MAKE IT YOUR OWN

Product description

The LOGIQ™ P8 is a workhorse for the demanding physician. Its flagship imaging engine is the foundation for finding the root of the patient's problem, even in difficult patients. Buttons on the transducer turn three-handed procedures into two-handed procedures, giving the physician more control. It all adds up to a system that's walk-up easy-to-use on day one and for the most challenging procedures.



General Specification

Dimensions and Weight

Height	Articulating monitor arm 1,345mm~1,595mm (53.0 in ~ 62.8 in)
Width	Keyboard: 430 mm (16.9 in) Foot cover: 495 mm (19.5 in) Monitor: 545mm [21.5 inch; 23.8inch Bezel-less LCD]
Depth	Foot cover: 685 mm (27.0 in) Rear handle: 740 mm (29.1 in)
Weight (max. load)	83 kg/183 lbs
Weight (min. load)	67 kg/148 lbs

Electrical Power

Voltage	100 – 240 Vac
Frequency	50/60 Hz
Power consumption maximum of 500 VA with peripherals	

Console Design

4 active probe ports (3 x RS and 1 x DLP)
Integrated Solid State Drive
Integrated DVD multi-drive (option)
On board storage for BW printer
Integrated speakers
Probe holders
Front handle
Gel warmer (option)
Rear handle (option)
Probe light

User Interface

Operator Keyboard

Ergonomic full size keyboard
Swivel-adjustable, height-adjustable
Digital TGC and digital A/N keyboard
Physical A/N keyboard (option)
10.4" LCD touch screen

Monitor

23.8inch Bezel-less LCD LED backlight monitor

System Overview

Applications

Abdominal
Obstetrical
Gynecological
Breast
Small parts
Musculoskeletal
Vascular

Urological
Pediatric & Neonatal
Intraoperative ⁴
Cardiac
Transcranial
Endocavitary (transvaginal, transrectal)
Transesophageal

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 ² (option)
CW Doppler Mode (option)
TVI Mode (option)
Strain Elastography (option)
Shear Wave Elastography (option)
3D/4D Volume Modes (option)
HDlive™ (option)
Offline Scanning Mode (option)
B-Steer + (option)

System Standard Features

Advanced User Interface with High Resolution
10.4" 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 (option) and SSD
 Raw Data Analysis
 Real-Time Automatic Doppler Calculations
 OB Calculations
 Fetal Trending
 Email to MMS
 MyTrainer+
 Privacy and Security
 Opath
 Tricefy
 Multigestational Touch Control
 InSite™ Capability
 IOTA (International Ovarian Tumor Analysis) LR2 worksheet⁴
 Vnav Import
 Doppler Assistant
 MyPreset
 SonoRenderLive

System Options

Auto IMT
 Advanced 3D
 Cable hook rear
 Card reader mounting kit
 Strain Elastography
 Elastography Quantification³
 DICOM (DICOM® 3.0 Connectivity)
 LOGIQView
 B-Flow/B-Flow Color
 CF/PDI Quantification (FlowQA)
 Breast Productivity Package
 Thyroid Productivity Package
 Measure Assist OB
 AutoEF
 B Steer+
 Stress Echo
 Tissue Velocity Imaging (TVI) with Q-Analysis
 Scan Assistant
 Compare Assistant
 Report Writer
 Cardiac Strain
 STIC
 OmniView
 Shear Wave Elastography⁴
 LOGIQ P Apps
 HDlive™
 Coded Contrast (CEUS)
 HRES CEUS
 Koios Breast Lesion Decision Support⁴
 Koios Thyroid Lesion Decision Support⁴
 Hepatic Assistant⁴
 Digital Expert⁴
 Software DVR Basic
 Software DVR
 SonoAVC

SonoNT/SonoIT
 Start Assistant

Peripheral Options

Integrated Options for	<ul style="list-style-type: none"> Digital BW thermal printer HDMI output available for compatible devices S-Video output available for compatible devices Wireless LAN card for wireless data transfer External USB printer connection Power Assistant (battery or extended battery Option) for offline scanning
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Digital color thermal printer
 Foot switch with programmable functionality
 Universal video converter
 Barcode reader⁴
 LOGIQ P Apps (Bluetooth)
 Ethernet protection cable⁴

Display Modes

Live and stored display format: full size and split screen – both with “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
 Timeline display
 Independent dual B or CrossXBeam/PW display
 CW

Display formats	<ul style="list-style-type: none"> Top/bottom selectable format Side/side selectable format
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Virtual convex
 Timeline only

Display Annotation

Patient Name: first, last and middle	
Patient ID	
Alternate patient ID	
Age, sex and birth date	
Hospital name	
Date format:	• MM/DD/YY
3 types selectable	• DD/MM/YY
	• YY/MM/DD
Time format:	• 24 hours
2 types selectable	• 12 hours
Gestational age from	• LMP
	• GA
	• EDD
	• 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 gauge, 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), Chinese (message only)
OB report formats including Tokyo Univ., Osaka Univ., USA, Europe, and ASUM
User defined annotations
Body patterns
Customized comment home position
Reset

Complete User Manual Available On-Board Through Help (F1)

User manual and service manual are included on USB with each system. A printed manual is available upon request.

CINE Memory/Image Memory

776 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:	<ul style="list-style-type: none"> • DICOM – compressed/uncompressed, single/multiframe, with/without raw data • Export JPEG, JPEG2000, WMV, MPEG 4 and AVI formats
Storage devices:	<ul style="list-style-type: none"> • USB memory Stick: 64 MB to 4 GB (for exporting individual images/clips) • CD-R storage: 700 MB • DVD storage: -R (4.7 GB) • Solid state drive image storage: ~345GB

Compare old images with current exam
 Reload of archived data sets

Connectivity & DICOM

Ethernet network connection	
DICOM 3.0 (Option)	
Wireless LAN ⁴ (Option)	
Verify	
Print	
Store	
Modality worklist	
Storage commitment	
Modality Performed Procedure Step (MPPS)	
Media exchange	
Off network/mobile storage queue	
Query/retrieve	
Public SR template	<ul style="list-style-type: none"> • Structured reporting – compatible with vascular and OB standard • Direct export DICOM SR and XML
Remote capability InSite™ ExC	
DICOM directory import	
LOGIQ P Apps (Option)	

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
 Thyroid reporting template

Scanning Parameters

Displayed imaging depth: 0 – 48 cm
 Minimum depth of field: 0 – 1 cm (zoom) (probe dependent)
 Maximum depth of field: 0 – 48 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°, 90°, 180°, 270°

Digital B-Mode

Adjustable:	<ul style="list-style-type: none"> • 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
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Digital M-Mode

Adjustable:	<ul style="list-style-type: none"> • Acoustic power • Gain • Dynamic range • Gray scale map • Frequency • Sweep speed • M colorization • M display format • Rejection
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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

Available on 3Sc-RS, 6S-RS, 12S-RS, 6Tc-RS, P2D, P6D and P8D probes

Automatic Optimization

Optimize B-Mode image to improve contrast resolution

Selectable amount of contrast resolution improvement (low, medium, high)

Auto TGC

Auto-spectral optimize adjusts

- Baseline
- Invert
- PRF (on live image)
- Angle correction

Coded Harmonic Imaging

Available on all 2D probes and 4D probes

B-Flow/B-Flow Color (Option)

Available on C1-5-RS, 8C-RS, L6-12-RS, 12L-RS, 9L-RS, ML6-15-RS, L8-18i-RS, L4-12t-RS, L3-12-RS, E8CS-RS, IC9-RS, BE9CS-RS, C2-7-D and 10C-D probes

Background: on/off

Sensitivity/PRI

Line density

Edge enhance

Frame average

Gray scale map

Tint map

Dynamic range

Rejection

Gain

Hybrid B-Flow

- Supported on C1-5-RS, 12L-RS, 9L-RS, ML6-15-RS, L4-12t-RS, L3-12-RS, C2-7-D and 10C-D probes

	<ul style="list-style-type: none"> • B & B-Flow simultaneous dual display • B & B-Flow overlay display
B-Flow Color (BFC)	
B-Flow High Definition Color (HD Color)	Supported on C1-5-RS, 12L-RS, ML6-15-RS, L4-12t-RS and L3-12-RS probes

Accumulation

Coded Contrast Imaging (Option)

Available on C1-5-RS, 3Sc-RS, IC9-RS, BE9CS-RS, 9L-RS and C2-7-D probes

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 P8 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

LOGIQ View (Option)

Extended Field of View imaging

Available on C1-5-RS, 8C-RS, L6-12-RS, 12L-RS, 9L-RS, ML6-15-RS, L8-18i-RS, L4-12t-RS, L3-12-RS, E8C-RS, E8CS-RS, IC9-RS, BE9CS-RS, RIC5-9A, 6Tc-RS, RAB2-6-RS, 3Sc-RS, 6S-RS, 12S-RS, C2-7-D and 10C-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

Real-time 4D (Option)

Acquisition modes

- Real-time 4D
- Static 3D

Visualization modes

- 3D rendering (diverse surface and intensity projection modes)
- Sectional planes (three section planes perpendicular to each other)
- Volume contrast imaging-static (Option)
- Tomographic ultrasound imaging (Option)

Render mode

Surface texture, surface smooth, max-, min- and X-ray (average intensity projection), mix mode of two render modes

Curved 3 point render start

3D movie

Scalpel: 3D cut tool

Display format

- Quad: A-/B-/C-Plane/3D
- Dual: A-Plane/3D
- Single: 3D or A- or B- or C-Plane

Automated Volume Calculation - VOCAL II (Option)

Betaview

Auto sweep

STIC (Option)

HDlive™ (Option)

VCI Static (Option)

Omniview (Option)

VCI OmniView

Scan Assistant (Option)

Factory programs

User defined programs

Steps include image annotations, mode transitions, basic

imaging controls and measurement initiation

Shear Wave Elastography (Option)

Available on C1-5-RS, L3-12-RS, IC9-RS, ML6-15-RS and 12L-RS probes

User programmable measurement display in kPa and meters per sec

Single and dual view display

B Steer+ (Option)

Available on C1-5-RS, 8C-RS, L6-12-RS, 12L-RS, 9L-RS, ML6-15-RS, L4-12t-RS, L3-12-RS, RAB2-6-RS, C2-7-D and 10C-D probes

Strain Elastography (Option)

Available on C1-5-RS, L6-12-RS, 12L-RS, ML6-15-RS, L4-12t-RS, L3-12-RS, IC9-RS, E8CS-RS, BE9CS-RS and 9L-RS probes
Semi-Quantification³

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

Compare Assistant (Option)

Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning

Power Assistant (Option)

Allows moving the system without a complete system shutdown and boot-up power cycle

Extended battery for off line scanning (Option) provides battery powered live scanning

Breast Productivity Package (Option)

Worksheet summary includes measurements and locations for nodule, parathyroid and lymph node

Feature assessment

BI-RADS® assessment

User editable

Thyroid Productivity Package (Option)

Worksheet summary includes measurements and locations for nodule, parathyroid and lymph node

Feature assessment

User editable

Auto EF (Option)

Allows semi-automatic measurement of the global EF (Ejection fraction)

User editable

Cardiac Strain (Cardiac AFI) (Option)

Allows assessing the left ventricle with all segments at a glance by combining three longitudinal views into one comprehensive bulls-eye view

2D strain based data moves into clinical practice

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 with 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 C1-5-RS, 8C-RS, L6-12-RS, 12L-RS, 9L-RS, ML6-15-RS, L8-18i-RS, L4-12t-RS, L3-12-RS, E8C-RS, E8CS-RS, BE9CS-RS, IC9-RS, RIC5-9A-RS, RAB2-6-RS, C2-7-D and 10C-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 baseline 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 20x: baseline 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)
- BD (Binocular Distance)
- HL (Humerus Length)
- 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)
- MCA PS(Middle Cerebral Artery Peak

OB Measurements/Calculations

Systolic Velocity)
 • MCA CP(Middle Cerebral Artery Pulsatility Index Over Umbilical Artery Pulsatility Index Ratio)
 • MCA PI(Middle Cerebral PI)
 • MCA RI(Middle Cerebral RI)
 • UmbArt PI(Umbilical artery PI)
 • UmbArt RI(Umbilical artery RI)
 • UtArt PI(Uterine artery PI)
 • UtArt RI(Uterine artery RI)

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
 IOTA (International Ovarian Tumor Analysis) LR2 worksheet⁴

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 Report

Urological Calculations

Bladder volume
Prostate volume
Left/right renal volume
Generic volume
Post-void bladder volume

Probes

LOGIQ P8

C1-5-RS, 8C-RS, E8C-RS, E8CS-RS, IC9-RS, BE9CS-RS, ML6-15-RS, L3-12-RS, L4-12t-RS, 12L-RS, L6-12-RS, 9L-RS, L8-18i-RS, 3Sc-RS, 6S-RS, 12S-RS, RAB2-6-RS, RIC5-9A-RS, P8D, P6D, P2D, 6Tc-RS, C2-7-D and 10C-D probes

C1-5-RS

Convex probe	
Applications	Abdomen (incl. Pleural), Vascular (No transcranial), OB/GYN, Urology
Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LE)

8C-RS

Micro convex probe	
Applications	Pediatrics, Neonatal
Biopsy guide	N/A

E8C-RS

Endocavitary micro convex probe	
Applications	OB/GYN (Transvaginal), Urology (Transrectal)

Biopsy guide	Single-angle, disposable with a disposable bracket (E8385MJ, E8333JB), single-angle, reusable bracket (H40412LN)
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E8CS-RS

Endocavitary micro convex probe	
Applications	OB/GYN (Transvaginal), Urology (Transrectal)
Biopsy guide	Single-angle, disposable with a disposable bracket (E8385MJ, E8333JB), single-angle, reusable bracket (H40412LN)

IC9-RS

Endocavitary micro convex probe	
Applications	OB/GYN, Urology (Transvaginal, Transrectal)
Biopsy guide	Single-angle, disposable with a disposable bracket (H48691YW), single-angle, reusable bracket (H48701MN)

BE9CS-RS

Endocavitary micro convex probe	
Applications	Urology (Transrectal)
Biopsy guide	Single-angle, disposable with a disposable bracket (E8387M, H42742LH, H42742LJ), single-angle, reusable bracket (E8387MA)

ML6-15-RS

Matrix array linear probe	
Applications	Small Parts, Vascular Vascular (No transcranial), Pediatric, Neonatal, Musculoskeletal
Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LJ)

L3-12-RS

Linear probe	
Applications	Abdomen (incl. Pleural), Vascular (No transcranial), Small Parts,

	Pediatric, Neonatal, Breast
Biopsy guide	Multi-Angle, disposable with a reusable bracket (H48302AA)

L4-12t-RS

Linear probe	
Applications	Abdomen (incl. Pleural), Small Parts, Vascular (No transcranial), Pediatric, Neonatal, Musculoskeletal, Breast
Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LC) single-angle, disposable with a reusable bracket (H48392LT: free hand, H48392LL: transverse)

12L-RS

Linear probe	
Applications	Small Parts, Vascular (No transcranial), Pediatric, Neonatal, Musculoskeletal
Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LC)

L6-12-RS

Linear probe	
Applications	Abdomen (incl. Pleural), Vascular (No transcranial), Small Parts, Pediatric, Neonatal
Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LC)

9L-RS

Linear probe	
Applications	Abdomen (incl. Pleural), Small Parts, Vascular (No transcranial), Pediatric
Biopsy guide	Multi-angle, disposable with a reusable bracket (H4906BK)

L8-18i-RS

Linear probe	
Applications	Small Parts, Vascular (No transcranial), Neonatal, Pediatrics, Intraoperative ⁴

	Musculoskeletal, Peripheral Vascular
Biopsy guide	N/A

3Sc-RS

Phased array sector probe	
Applications	Cardiac, Abdomen (incl. Pleural), Transcranial
Biopsy guide	Multi-angle, disposable with a reusable bracket (H46222LC)

6S-RS

Phased array sector probe	
Applications	Cardiac, Pediatrics, Neonatal
Biopsy guide	N/A

12S-RS

Phased array sector probe	
Applications	Pediatrics, Neonatal
Biopsy guide	N/A

RAB2-6-RS

Convex volume probe	
Applications	Abdomen, OB/GYN, Urology
Biopsy guide	Multi-angle, disposable with reusable bracket (H48681ML)

RIC5-9A-RS

Endocavitary micro convex volume probe	
Applications	OB/GYN (Transvaginal), Urology (Transrectal)
Biopsy guide	Single-angle, disposable with a disposable bracket (H48681GF), single-angle, reusable bracket (H46721R)

P8D

CW split crystal probe	
Applications	Cardiac, Vascular (No transcranial)

P6D

CW split crystal probe	
Applications	Cardiac, Vascular (No transcranial)

P2D

CW split crystal probe	
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Applications	Cardiac, Vascular (No transcranial)
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6Tc-RS

TEE Sector (Trans-esophageal) Probe	
Applications	Cardiac (Transesophageal)
Biopsy guide	N/A

C2-7-D

Convex probe	
Applications	Abdomen (incl. Pleural)
Biopsy guide	Multi Angle, disposable with a reusable bracket (H40482LK), Multi Angle, reusable bracket (H404822LL)

10C-D

Micro Convex probe	
Applications	Pediatric, Neonatal, Vascular (No transcranial)
Biopsy guide	N/A

Inputs and Outputs

HDMI out	
Ethernet network (RJ45)	
S-video out	
Composite video out	
USB (2x in front (USB 3.0), 3x in rear)	
AC power input	

- IEC/EN 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment
- IEC 61157 (Standard means for the reporting of the acoustic output of medical diagnostic ultrasonic equipment)
- IEC/EN 62366 Application of usability engineering to medical devices
- IEC/EN 62304 Software Life Cycle Processes
- IEC/EN 62359 Ultrasonic - Field characterization - Test methods for the determination of thermal and mechanical indices related to medical diagnostic ultrasonic fields
- EN ISO 15223-1: Symbols to be used with medical device labels, labelling and information to be supplied
- ISO 10993-1 Biological evaluation of medical devices – Part 1 Evaluation and testing
- EN ISO 14971:2019 (Medical devices - Application of risk management to medical devices)
- EMC Emissions Group 1, class A, Class B device requirements as per Sub clause 4.2 of CISPR 11
- WEEE (Waste Electrical and Electronic Equipment)
- ROHS according to 2011/65/EU Including national deviations
- Wireless equipment shall be certified to FCC, RED and Japan Radio Law
- Medical Device Good Manufacturing Practice Manual issued by the FDA (Food and Drug Administration, Department of Health, USA).

Safety Conformance

The LOGIQ P8 is:

Conforms to the following standards for safety:
Classified to ANSI/AAMI ES60601-1 2005 R1 2012 Medical Electrical Equipment, Part 1: General Requirements for Safety by a Nationally Recognized Test Lab

Certified to CSA CAN/CSA-C22.2 NO. 60601-1 :14 General requirements for safety
CE Marked to REGULATION (EU) 2017/745 on Medical Devices

- IEC/EN 60601-1 3.1 Edition. Medical electrical equipment – Part 1: General requirements for basic safety and essential performance
- IEC/EN 60601-1-2 Medical electrical equipment – Part 1-2: General requirements for safety
Collateral Standard: Electromagnetic compatibility – requirements and tests
- IEC/EN 60601-1-6 Medical electrical equipment Part 1 -6: General requirements for basic safety and essential performance – Collateral Standard: Usability

1. The LOGIQ P8 is a highly mobile and easy to use, performance multi-purpose color doppler imaging system, designed for Abdominal, Small Parts, Musculoskeletal, Breast, Vascular, Cardiology, Transcranial, Urology, Pediatric, Neonatal, Obstetrics Transesophageal and Gynecology applications.
2. Contrast Enhanced Ultrasound is available in the U.S. for characterization of focal liver lesions and left ventricle opacity only.
3. Elastography with semi-Quantification (Elastography Quantification) described in this material has not been cleared by the U.S. FDA and is not available for promotion or sale in the United States.
4. Available on region regulatory clearance

Imagination at work

Product may not be available in all countries and regions. Full product technical specification is available upon request. Contact a GE Healthcare Representative for more information. Please visit www.gehealthcare.com/promotional-locations

Data subject to change.

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