LOGIQ P9

MAKE IT EASY. MAKE IT YOUR OWN



Product description

The LOGIQ™ P9 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 V	Veight
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 [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)
Prohe 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	

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 <u>(option)</u>
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 <u>(option)</u>
HD <i>live</i> [™] (option)
Offline Scanning Mode (option)
B-Steer + (option)
UGAP (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
Qpath
Tricefy
Multigestational Touch Control
InSite™ Capability
IOTA (International Ovarian Tumor Analysis) LR2
worksheet ⁴
Vnav Import
Doppler Assistant
MyPreset
SonoRenderLive

SonoRenderLive
System Options
Auto IMT
Advanced 3D
Cable hook rear
Card reader mounting kit
Strain Elastography
Elastography Quantification ³
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
UGAP
Software DVR Basic
JOILWALE DAIL DASIC

Software DVR	
SonoAVC	
SonoNT/SonoIT	
Start Assistant	

Peripheral Options

Integrated options for

 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

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 В/М 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 . Top/bottom selectable Display formats format Side/side selectable format

Virtual convex Timeline only

Display Annotation	
Patient Name: first, last a	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	• TIS: Thermal Index
output	Soft Tissue
output	• TIC: Thermal Index
	Cranial (Bone)
	• TIB: Thermal Index Bone
	• MI: Mechanical Index
% of maximum power ou	tput
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	
Time scale	
Dannlarmada	
Doppler mode Gain	
Anglo	
Sample volume depth an	d width
Wall filter	
Velocity and/or frequenc	v scale
Time a coole	
DDE	
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	
DDI	
Inversion	
Doppler frequency	
TGC curve	
Cine gage, image numbe	r/frame number
Body pattern: multiple h	
A 1' '	
Massurament results	
Operator message	
Biopsy guide line and zor	ne
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

hast 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: 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	ı current exam

Reload of archived data sets

Connectivity & DICOM	
Ethernet network connec	ction
DICOM 3.0 (option)	
Wireless LAN⁴ (option)	
Verify	
Print	
Store	
Madality	
Storage commitment	
Modality Performed Proc	edure Step (MPPS)
Media exchange	
Off network/mobile stora	
Query/retrieve	
Public SR template	 Structured reporting – compatible with vascular and OB standard Direct export DICOM SR and XML
Remote capability InSite	* ExC
DICOM directory import	

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

LOGIQ P Apps (Option)

Report Writer (Option)

On-board reporting package automates report

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

- Carining : ar arrietter -
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:	 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

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

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, L10-22-RS, L3-9i-RS, L3-12-RS, E8CS-RS, IC9-RS, BE9CS-RS, C1-6-D, 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, C1-6-D, C2-7-D

and 10C-D probes

	• B & B-Flow
	simultaneous
	dual display
	 B & B-Flow overlay
	display
B-Flow Color (BFC)	
B-Flow High Definition	Supported on C1-5-RS,
Color	12L-RS, ML6-15-RS, L4-
(HD Color)	12t-RS, L3-12-RS and
	C1-6-D probes

Accumulation

Coded Contrast Imaging (Option)
Available on C1-5-RS, 3Sc-RS, IC9-RS, BE9CS-RS, 9L-RS, C1-6-D and C2-7-D probes 2 contrast timers Timed updates: 0.05 – 10 seconds Accumulation mode, six levels Maximum Enhance Mode Time Intensity Curve (TIC) Analysis Auto MI control

Auto MI control
The LOGIQ P9 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, L10-22-RS, L3-9i-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, C1-6-D, 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

3D

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

Advanced 3D (Option)

Measurements in B-Mode

Acquisition of color data

Automatic rendering
3D landscape technology
3D movie

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 st	
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
A., to poot and 1/- 1,	
Automated Volume Calc	culation - VOCAL II
(option) Betaview	
Auto sweep	
STIC (option)	
HD <i>live</i> [™] (option)	
VCI Static (option)	
Omniview (option)	VCI OmniView

Scan Assistant (Option)

Factory programs

User defined programs Steps include image annotations, mode transitions,

imaging controls and measurement initiation

Shear Wave Elastography (Option)

Available on the following probes: C1-5-RS, L3-12-RS, IC9-RS, ML6-15-RS, C1-6-D 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, C1-6-D, 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, 9L-RS and C1-6-D probes Semi-Quantification³

TVI (Option)

Myocardial doppler imaging with color overlay on

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

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-

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

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, L10-22-RS, L3-9i-RS, L3-12-RS, E8C-RS, E8CS-RS, BE9CS-RS, IC9-RS, RIC5-9A-RS, RAB2-6-RS, C1-6-D, C2-7-D and 10C-D probes

Controls Available While "Live"

Write zeem	Colorized enactrum
Write zoom	Colorized spectrum
B/M/CrossXBeam Mode	Display format
Gain	Doppler audio
TGC	Angle correct
Dynamic range	Quick angle correct
Acoustic output	Auto angle correct
Transmission focus position	Color flow
Transmission focus number	Overall gain (loops and stills)
Line density control	Color map
Sweep speed for M-Mode	Transparency map
Number of angles for CrossXBeam	Frame averaging (loops only)
PW-Mode	Flash suppression
Gain	CFM display threshold
Dynamic range	Spectral invert for Color/Doppler
Acoustic output	Anatomical M-Mode on Cine loop
Transmission frequency	
PRF	Managements/Calaulatiana
Wall filter	Measurements/Calculations
Spectral averaging	General B-Mode
Sample volume gate • Length	Depth and distance
• Depth	Circumference (ellipse/trace)
Velocity scale	Area (ellipse/trace)
Color Flow Mode	Volume (ellipsoid)
CFM gain	% Stenosis (area or diameter)
CFM velocity range	Angle between two lines
Acoustic output	Aligie betweell two lines
Wall echo filter	Canada Mada
Packet size	General M-Mode
Frame rate control	M-Depth
CFM spatial filter	Distance
CFM frame averaging	Time
CFM line resolution	Slope
	Heart rate
Frequency/velocity baseline shift	
	General Doppler Measurements/Calculations
Controls Available on "Freeze" or Recall	Velocity
Automatic optimization	Time
SRI-HD	A/B ratio (velocities/frequency ratio)
CrossXBeam – display non-compounded and	PS (Peak Systole)
compounded	ED (End Diastole)
image simultaneously in split screen	PS/ED (PS/ED ratio)
3D reconstruction from a stored Cine loop	ED/PS (ED/PS ratio)
B/M/CrossXBeam Mode	AT (Acceleration Time)
	ACCEL (Acceleration)
Gray map optimization	TAMAX (Time Averaged Maximum Velocity)
TGC	Volume Flow (TAMEAN and vessel area)
Colorized B and M	
Frame average (loops only)	Heart rate
Dynamic range: Anatomical M-Mode	PI (Pulsatility Index)
Max Read Zoom to 20x: baseline shift	RI (Resistivity Index)
Sweep speed	
PW Mode	Real-time Doppler Auto
Gray map	Measurements/Calculations
Post gain	PS (Peak Systole)
Baseline shift	ED (End Diastole)
Sweep speed	MD (Minimum Diastole)
Invert spectral wave form	PI (Pulsatility Index)
Compression	RI (Resistivity Index)
Rejection	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)

OR Measurements/Cal	rulations
	• 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 FL/BPD • FL/AC • FL/HC • HC/AC CI (Cephalic Index) AFI (Amniotic Fluid Index) CTAR (Cardio-Thoracic

Calculations and ratios

Area Ratio) MCA PS(Middle Cerebral Artery Peak 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

Vascular Measurements/Calculations

SYS DCCA (Systolic Distal Common Carotid Artery)
DIAS DCCA (Diastolic Distal Common Carotid 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 P9

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, L10-22-RS, L8-18i-RS, 3Sc-RS, 6S-RS, 12S-RS, RAB2-6-RS, RIC5-9A-RS, P8D, P6D, P2D, L3-9i-RS,6Tc-RS, C1-6-D, 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	
Endocavitory micro conve	ex probe
Applications	OB/GYN (Transvaginal),
	Urology (Transrectal)

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

E8CS-RS	
Endocavitory micro conve	ex probe
Applications	OB/GYN (Transvaginal),
	Urology (Transrectal)
Biopsy guide	Single-angle, disposable with a disposable bracket (E8385MJ, E8333JB), single-angle, reusable bracket (H40412LN)

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

BE9CS-RS				
Endocavitory 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,	L8-18i-RS		
	Breast			
Biopsy guide L4-12t-RS	Multi-Angle, disposable with a reusable bracket (H48302AA)	Linear probe Applications	Small Parts, Vascular (No transcranial), Neonatal, Pediatrics, Intraoperative ⁴ , Musculoskeletal,	
Linear probe	·	D' 'I	Peripheral Vascular	
Applications	Abdomen (incl. Pleural), Small Parts, Vascular (No transcranial), Pediatric, Neonatal, Musculoskeletal, Breast	3Sc-RS Phased array secto	n/A r probe Cardiac, Abdomen (incl.	
Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LC) single-angle, disposable with a reusable bracket (H48392LT:	Biopsy guide	Pleural), Transcranial Multi-angle, disposable with a reusable bracket (H46222LC)	
	free hand, H48392LL:	6S -RS		
401.00	transverse)	Phased array secto Applications	r probe Cardiac, Pediatrics, Neonatal	
12L-RS		Biopsy guide	N/A	
Linear probe Applications	Small Parts, Vascular (No			
Applications	transcranial), Pediatric, Neonatal, Musculoskeletal	12S -RS Phased array secto Applications	r probe Pediatrics, Neonatal	
Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LC)	Biopsy guide	N/A	
		RAB2-6-RS		
L6-12-RS Linear probe		Convex volume pro Applications	Abdomen, OB/GYN, Urology	
Applications	Abdomen (incl. Pleural), Vascular (No transcranial), Small Parts, Pediatric, Neonatal	Biopsy guide	Multi-angle, disposable with reusable bracket (H48681ML)	
Biopsy guide	Multi-angle, disposable			
	with a reusable bracket	RIC5-9A-RS		
	(H40432LC)	Applications	o convex volume probe OB/GYN (Transvaginal), Urology (Transrectal)	
9L-RS		Biopsy guide	Single-angle, disposable	
Applications Biopsy guide	Abdomen (incl. Pleural), Small Parts, Vascular (No transcranial), Pediatric Multi-angle, disposable		with a disposable bracket (H48681GF), single-angle, reusable bracket (H46721R)	
	with a reusable bracket (H4906BK)	P8D		
		CW split crystal pro		
L10-22-RS Linear probe		Applications 	Cardiac, Vascular (No transcranial)	
Applications	Small Parts,			
	Musculoskeletal, Neonatal	P6D CW split crystal pro	bbe	
Biopsy guide	N/A			

Applications	Cardiac, Vascular (No transcranial)
P2D CW split crystal probe Applications	Cardiac, Vascular (No transcranial)
L3-9i-RS	
Linear probe Applications	Small Parts, Vascular, Musculoskeletal, Intraoperative ⁴
Biopsy guide	N/A
6Tc-RS TEE Sector (Trans-esopl Applications Biopsy guide	hageal) Probe Cardiac (Transesophageal) N/A
C1-6-D	
Convex probe Applications	Abdomen (incl. Pleural), Vascular (No transcranial), OB/GYN, Urology
Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BB)
C2-7-D	
Convex probe	
Applications Biopsy guide	Abdomen (incl. Pleural) 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	5)

USB (2x in front (USB 3.0), 3x in rear

AC power input

Safety Conformance

The LOGIO P9 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 Council Directive 93/42/EEC 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 Medial 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
- 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
- ISO 10993-1 Biological evaluation of medical devices – Part 1 Evaluation and testing
- ISO14971:2012(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
- 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).

- The LOGIQ P10 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.
- Contrast Enhanced Ultrasound is available in the U.S. for characterization of focal liver lesions and left ventricle opacity only.
- 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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