SPECIFIAȚIE TEHNICĂ COMPLETATĂ

Model: LOGIQ P9; Producator: GE Ultrasound Kore, GE Medical Systems,

Tara: Korea si France

Specificarea tehnică deplină solicitată de către	Specificarea tehnică deplină propusă de către
autoritatea contractantă	autoritatea ofertantă
Ultrasonograf General, Cardiac, performanță înaltă	Ultrasonograf General, Cardiac, performanță înaltă
	DA
Cod 300100	Cod 300100
APLICAȚII CLINICE General, cardiac	APLICAȚII CLINICE General, Cardiac, OB ,
	Ginecologice ,vasculare si altele Ref. LOGIQ P9
	Product de sciption
PROBE PORTURI ≥5, cel putin 4 active	PROBE PORTURI \geq 5, 4 porturi active (sonde
	multefregventiale) + 1 CWD pentru pencel probe.
PROBE TIP, MHz	PROBE TIP, MHz
Linear 4 - 13 MHz	Linear 4 - 15 MHz
numar de elemente ≥192	numar de elemente - 1000
	Model: ML6-15-RS Ref. LOGIQ P9 R4 Product
	Spec Sheet pag. 24-25
Communa 1.5. 5.5 MHz	Corner 1 (MII-
Convex 1.5 -5,5 MHz	Convex 1-6MHz "numar de elemente - 192
"numar de elemente ≥192	
Tehnologie Syngle Crystal (mono-cristal)"	Tehnologie Syngle Crystal (mono-cristal)" Model: C1-6-D Ref. LOGIQ P9 R4 Product Spec
	Sheet pag. 23
	Sheet pag. 23
Phased/Vector 1,5-5 MHz	Phased/Vector 1-6 MHz
numar de elemente ≥80, Tehnologie Syngle Crystal	numar de elemente -64,
(mono-cristal)	Model: C1-6-D Ref. LOGIQ P9 R4 Product Spec
	Sheet pag. 28
Tehnologie de conectare probe fara pini (pinless)	Tehnologie de conectare probe fara pini (pinless) DA
	la fel este prezenta si tehnologia cu pini (3pourti RS
MIVELE DE CDI > 256	+1 Port D) folosita pentru sonde matricide convexe. NIVELE DE GRI 256 DA
NIVELE DE GRI ≥ 256 GAMA DINAMICA ≥ 260 dB	GAMA DINAMICA 400 dB Ref. LOGIQ P9 R4
GAINIA DINAMICA 2 2000B	Product Spec Sheet pag. 10
Adâncimea scanării ≥ 40 cm	Adâncimea scanării maxima 48 cm LOGIQ P9 R4
Addicinica Scanarii 2 40 cm	Product Spec Sheet pag. 10
PREPROCESARE, canale digitale $\geq 6.000.000$	PREPROCESARE, canale digitale - 386.469,00 DA
POSTPROCESARE da	POSTPROCESARE DA
IMAGINE MODURI	IMAGINE MODURI
M-mod da	M-mod DA
M-mod şi 2-D da	M-mod și 2-D DA
Mod Anatomic si Anatomic Curbat da	Mod Anatomic si Anatomic Curbat DA
Harmonic imaging da	Harmonic imaging DA
Imagine prin Compunere Spatiala da	Imagine prin Compunere Spatiala DA
DOPPLER Tip CW, PW, CFM	DOPPLER Tip CW, PW, CFM DA si TVI inclus
Afișare frecvență da	Afișare frecvență DA
Afișare viteză da	Afișare viteză DA
Power Doppler da	Power Doppler DA

Vezi Anexa 79

Duplex da

Triplex da

FUNCȚIONALITĂȚI

Măsurători digitale da

Diapazon dinamic selectabil da

Focalizare de transmisie ajustabilă da

Focalizare de recepție dinamică da

Măsurători pe reluarea video da

Măsurarea automată a intimei-media da

Vizualizare în rezoluție înaltă a fluxului sangvin da

Analiza cantitativa TDI da

Urmărirea miscării tesuturilor (Tissue Tracking) da

PAN/ZOOM imagine în timp real da

imagine înghetată da

STOCARE IMAGINI Capacitate ≥ 512GB SSD sau

Hybrid (SSD+HDD)

Cine da

DICOM 3.0 COMPLIANT da

PACHETE DE ANALIZĂ General da

Cardiac

Regim panoramic avansat da

Elastografie strain (de compresie manuală) da

Elastografie sharewave (compresie acustică) da

Altele Să se indice

GHID ACE Transrectal da

Transperineal da

MONITOR rezoluție înalță, ≥1920 x 1080px ≥23"

Unghi de vizualizare ≥175°

Monitor integrat de control touch-screen ≥12"

Panou de control reglabil pe înălțime manual

Încălzitor gel da

Imprimantă digitala alb-negru da

Port USB ≥5 da

DIVIZARE MONITOR da

Duplex **DA**

Triplex **DA**

FUNCȚIONALITĂȚI

Măsurători digitale DA

Diapazon dinamic selectabil **DA**

Focalizare de transmisie ajustabilă **DA**

Focalizare de recepție dinamică DA

Măsurători pe reluarea video DA

Măsurarea automată a intimei-media **DA**

Vizualizare în rezoluție înaltă a fluxului sangvin DA

Analiza cantitativa TDI **DA Doppler Tisular inclus**

Urmărirea mișcării țesuturilor (Tissue Tracking) DA

PAN/ZOOM imagine în timp real **DA**

imagine înghetată DA

STOCARE IMAGINI Capacitate - 512GB SSD cu

spatiu de stocare 345 GB

Cine **DA**

DICOM 3.0 COMPLIANT DA

PACHETE DE ANALIZĂ General **DA**

Cardiac DA

Regim panoramic avansat **DA**

Elastografie strain (de compresie manuală) DA

Elastografie sharewave (compresie acustică) **DA**

Altele Să se indice

GHID ACE Transrectal **DA sint diponibile**

Transperineal **DA** sint diponibile

MONITOR rezoluție înalță, - 1920 x 1080px ,23.8"

DA

Unghi de vizualizare - 178° DA

Monitor integrat de control touch-screen 10 "DA

Panou de control reglabil pe înălțime manual **DA**

Încălzitor gel DA

Imprimantă digitala alb-negru DA

Port USB ≥5 **DA**

DIVIZARE MONITOR DA



EC Declaration of Conformity

Following the provisions of the medical devices directive 93/42/EEC, Annex II and of the directive 2011/65/EU, directive 2012/19/EU, directive 2014/53/EU

Manufacturer:

GE Ultrasound Korea, Ltd. 9, Sunhwan-ro 214beon-gil, Jungwon-gu, SEONGNAM-SI, GYEONGGI-DO Republic of Korea EU Authorized Representative: GE MEDICAL SYSTEMS SCS 283 RUE DE LA MINIERE 78530 BUC FRANCE

Equivalent to

65-1, Sangdaewon-dong, Jungwon-gu, SEONGNAM-SI GYEONGGI-DO 462-120 Republic of Korea

Additional Manufacturing site
GE MEDICAL SYSTEMS INFORMATION TECHNOLOGIES
CRITIKON DE MEXICO S.de R.L. de C.V.,
Calle Valle del Cedro 1551,
Juarez 32575 CHIHUAHUA
MEXICO

We hereby declare under our sole responsibility that the class **IIa** product:

LOGIQ P8, LOGIQ P9, LOGIQ P10 General Purpose Ultrasound Imaging System (ref: See Addendum)

GMDN Code: **40761** UMDNS Code: **15976**

Classification rule (93/42/EC Annex IX): Rule 10

To which this declaration relates, is in conformity with the requirements of:

The medical devices directive 93/42/EEC (MDD)

The directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The directive 2012/19/EU on the waste electrical and electronic equipment (WEEE)

The directive 2014/53/EU on the radio equipment (RED)

This conformity is based on the following elements:

Information included in the technical documentation ref.: DOC1587707 /DHF ref.: DOC1412680, of the product to which this declaration relates.



- EC certificate: approval of full quality assurance system (Annex II of the medical devices directive 93/42/EEC) delivered by GMED (Notified Body N° 0459) on Certificate Number N° 7697.
- List of harmonized standards applied for CE marking
 - o EN 60601-1:2006/A12:2014 (Edition 3.1)
 - o EN 60601-1-2:2015
 - o EN 60601-1-6:2010/A1:2015
 - o EN 60601-2-37: 2008/A1:2015
 - o EN 62304:2006/AC: 2008
 - o EN 62366:2008 + A1:2015
 - o EN 1041:2008
 - o EN ISO 15223-1: 2016

Song, Chae-Rin

Regulatory Affairs Specialist

GE Healthcare. GE Ultrasound Korea, Ltd. 9, Sunhwan-ro 214beon-gil, Jungwon-gu, SEONGNAM-SI,

GYEONGGI-DO REPUBLIC OF KOREA

Date: 28-Apr-2021



ADDENDUM TO THE EC DECLARATION OF CONFORMITY dated 28-Apr-2021

Product Description	HCAT#	LOGIQ P8	LOGIQ P9	LOGIQ P10	LOGIQ P10 HD
Base Systems					
LOGIQ P8 R4	H43092LH	1	-	-	-
LOGIQ P9 R4	H43092LJ	-	1	-	_
LOGIQ P10 R4	H43092LK	-	~	1	-
LOGIQ P10 R4 HD	H43092LL	-	-	-	1
Probes					
M5Sc-RS Probe	H44901AG	-	-	1	1
C1-6-D Probe	H40472LT	-	1	1	1
C3-10-D Probe	H40482LB	_	_	1	1
C2-7-D Probe	H46422LM	1	1	1	1
10C-D Probe	H46342LA	1	1	1	1
E8C-RS	H40402LN	1	1	1	1
8C-RS	H40402LS	1	1	1	1
12L-RS Probe	H40402LY	1	1	1	1
9L-RS Probe	H40442LL	1	1	1	1
C1-5-RS Probe	H40462LA	1	1	1	1
L8-18i-RS Probe	H40462LF	1	1	1	1
ML6-15-RS Probe	H40462LM	1	1	1	1
BE9CS-RS Probe	H40482LN	1	1	1	1
12S-RS Probe	H44901AB	1	1	1	1
L3-12-RS Probe	H44901AP	1	1	1	1
6S-RS PROBE	H45021RP	1	1	1	1
3Sc-RS Probe	H45041DL	1	1	1	1
6Tc-RS Probe	H45551ZE	1	1	1	1
L3-9i-RS Probe	H46442LK	-	1	1	1
L4-12t-RS Probe	H48062AB	1	1	1	1
L6-12-RS Probe	H48062AC	1	1	1	1
E8Cs-RS Probe	H48062AF	1	1	1	1
P2D Probe	H4830JE	1	1	1	1
P6D Probe	H4830JG	1	1	1	1
Doppler P8D Probe	H46312LZ	1	1	1	1
L10-22-RS	H48312AH	-	1	1	1
RAB2-6-RS Probe	H48681WR	1	1	1	1
C9-RS Probe	H48691PJ	1	1	1	1
RIC5-9A-RS Probe	H48701EJ	1	1	1	1
Biopsy Options					
3SP Multi-Angle Biopsy	H46222LC	1	1	1	1
M5S Biopsy Kit	H45561FC	_	-	1	1
9L Bio Guide Starter Kit	H4906BK	1	1	1	1



121-RS Biopsy Starter Kit						
MLG-15 Biopsy Starter Kit	12L-RS Biopsy Starter Kit	H40432LC	1	1	1	1
12L Transverse Bracket				_		
Infinite 12L Biopsy Kit	12L Transverse Bracket	H48392LL				
13-12-D Biopsy Kit	Infinite 12L Biopsy Kit	-		-		
C1-5 Biopsy Starter Kit H40432LE 1 1 1 1 1 1 C1-6-D Biopsy Starter Kit H4913BB - 1 1 1 1 1 1 C2-6-D Biopsy Kit H40482LK 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
C2-7 Biopsy Starter Kit						
C2-7 Biopsy Kit				-		
C2-7 Biopsy Kit Stainless						
E721 Starter Kit						
E8C E721 E8C-RS IC5-9H MTZ Biopsy Kit BE9CS Biopsy Kit BE9CS Biopsy Kit 742-339 BE9CS Biopsy Kit 742-401 Reusable Biopsy Needle Guide for GE BE9C Ultrasound Probe Sterile Disposable Biopsy Needle Guide kit for GE BE9C Probe IC9-RS Reusable Biopsy Kit IC9 Biopsy Disposable Biopsy Starter Kit RAB6-D Biopsy Starter Kit RAB6-D Biopsy Starter Kit RAB6-D Biopsy Starter Kit BE9CS Biopsy Kit for RIC5-9 H48681GF I 1 1 1 TEE PRB Accessory ADULT TEE CLIP-ON BITE GUARD BITE HOLE INDICATOR BITE H45531RS I 1 1 1 1 A 1 1 A 1 1 1 A 1 1 1 A 1 1 1 A 1 1 1 A 1 1 A 1 1 1 A 1 1 1 A 1 1 A 1 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A 1 1 A					+	
MTZ Biopsy Kit		203031413		<u> </u>		<u> </u>
E8C Reusable Biopsy Kit H40412LN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		E8333JB	1	1	1	1
BE9CS Biopsy Kit 742-339		H40412LN	1	1	1	1
BE9CS Biopsy Kit 742-401		+				
Reusable Biopsy Needle Guide for GE BE9C Ultrasound Probe E8387MA 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Sterile Disposable Biopsy Needle Guide kit for GE E8387M 1		1142/42LJ	1	Ι Ι	1	1
Ultrasound Probe Sterile Disposable Biopsy Needle Guide kit for GE E8387M 1		E020784A	1			
Sterile Disposable Biopsy		E030/IVIA	1	1	1	1
Needle Guide kit for GE E8387M		La company of the com				
BE9C Probe IC9-RS Reusable Biopsy Kit H48701MN 1		F020784				
IC9-RS Reusable Biopsy Kit		E838/IVI	1	1	1	1
IC9 Biopsy Disposable Biopsy Starter Kit H48691YW 1		11407045451				
Biopsy Starter Kit H48691YW 1		H48/01MN	1	1	1	1
RAB6-D Biopsy Starter Kit PEC63 Biopsy Kit for RIC5-9 RIC5-9A-RS Single Angle Disposable Biopsy Kit TEE PRB Accessory ADULT TEE CLIP-ON BITE GUARD ADULT TEE CLIP-ON BITE GUARD OPR. ADULT TEE SCANHEAD PROTECTION COVER ADULT TEE ADULT TEE ADULT TEE SCANHEAD PROTECTION COVER ADULT TEE CONVENTIONAL BITE GUARD BITE H45521JH GUARD BITE HOLE INDICATOR H45531RS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	H48691YW	1	1	1	1
PEC63 Biopsy Kit for RIC5-9 H46721R 1 1 1 1 RIC5-9A-RS Single Angle Disposable Biopsy Kit H48681GF 1 1 1 1 TEE PRB Accessory ADULT TEE CLIP-ON BITE GUARD H45511EE 1 1 1 1 ADULT TEE CLIP-ON BITE GUARD OPR. H45521CB 1 1 1 1 ADULT TEE SCANHEAD PROTECTION COVER H45521CK 1 1 1 1 ADULT TEE CONVENTIONAL BITE GUARD H45521JH 1 1 1 1 BITE HOLE INDICATOR H45531HS 1 1 1 1 1 BITE PROBES UM EN H45531RA 1 1 1 1 1 TEE PROBES UM ES H45531RE 1 1 1 1 1 TEE PROBES UM PT-PT H45531RF 1 1 1 1 1		114000414				
RIC5-9A-RS Single Angle Disposable Biopsy Kit TEE PRB Accessory ADULT TEE CLIP-ON BITE GUARD ADULT TEE CLIP-ON BITE GUARD OPR. ADULT TEE SCANHEAD PROTECTION COVER ADULT TEE CONVENTIONAL BITE GUARD BITE H45521JH GUARD BITE H0LE INDICATOR H45531RA TEE PROBES UM EN H45531RD TIEF PROBES UM ES H45531RF TIEF PROBES UM PT-PT H45531RF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Disposable Biopsy Kit H48681GF 1 1 1 1 TEE PRB Accessory ADULT TEE CLIP-ON BITE GUARD H45511EE 1 1 1 1 ADULT TEE CLIP-ON BITE GUARD OPR. H45521CB 1 1 1 1 ADULT TEE SCANHEAD PROTECTION COVER H45521CK 1 1 1 1 ADULT TEE CONVENTIONAL BITE GUARD H45521JH 1 1 1 1 BITE HOLE INDICATOR H45531HS 1 1 1 1 BITE PROBES UM EN H45531RA 1 1 1 1 TEE PROBES UM IT H45531RE 1 1 1 1 TEE PROBES UM PT-PT H45531RF 1 1 1 1		H46/21R	1	1	1	1
TEE PRB Accessory		H48681GF	1	1	1	1
ADULT TEE CLIP-ON BITE GUARD H45511EE 1 1 1 1 ADULT TEE CLIP-ON BITE GUARD OPR. H45521CB 1 1 1 1 1 ADULT TEE SCANHEAD PROTECTION COVER H45521CK 1 1 1 1 1 ADULT TEE CONVENTIONAL BITE GUARD H45521JH 1 1 1 1 1 1 BITE HOLE INDICATOR H45531HS 1<					_	-
GUARD H45511EE 1 1 1 1 ADULT TEE CLIP-ON BITE GUARD OPR. H45521CB 1 1 1 1 1 ADULT TEE SCANHEAD PROTECTION COVER H45521CK 1 1 1 1 1 ADULT TEE CONVENTIONAL BITE GUARD H45521JH 1 1 1 1 1 BITE HOLE INDICATOR H45531HS 1 1 1 1 1 1 TEE PROBES UM EN H45531RA 1 1 1 1 1 1 TEE PROBES UM ES H45531RD 1 1 1 1 1 1 TEE PROBES UM PT-PT H45531RF 1 1 1 1 1 1						
ADULT TEE CLIP-ON BITE GUARD OPR. ADULT TEE SCANHEAD PROTECTION COVER ADULT TEE CONVENTIONAL BITE GUARD BITE HOLE INDICATOR H45531HS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		H45511EF	1	1	1	1
GUARD OPR. H45521CB 1 1 1 ADULT TEE SCANHEAD PROTECTION COVER H45521CK 1 1 1 1 ADULT TEE CONVENTIONAL BITE GUARD H45521JH 1 1 1 1 1 BITE HOLE INDICATOR H45531HS 1 1 1 1 1 1 TEE PROBES UM EN TEE PROBES UM IT TEE PROBES UM IT TEE PROBES UM ES TEE PROBES UM PT-PT TEE				*	1	
ADULT TEE SCANHEAD PROTECTION COVER ADULT TEE CONVENTIONAL BITE GUARD BITE HOLE INDICATOR H45531HS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		H45521CB	1	1	1	1
PROTECTION COVER H45521CK 1 1 1 ADULT TEE 1 1 1 1 CONVENTIONAL BITE GUARD H45521JH 1 1 1 1 BITE HOLE INDICATOR H45531HS 1 1 1 1 1 TEE PROBES UM EN H45531RA 1 1 1 1 1 1 TEE PROBES UM IT H45531RD 1					-	-
ADULT TEE CONVENTIONAL BITE GUARD BITE HOLE INDICATOR H45531HS 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		H45521CK	1	1	1	1
CONVENTIONAL BITE GUARD H45521JH 1 1 1 BITE HOLE INDICATOR H45531HS 1 1 1 1 TEE PROBES UM EN H45531RA 1 1 1 1 TEE PROBES UM IT H45531RD 1 1 1 1 TEE PROBES UM ES H45531RE 1 1 1 1 TEE PROBES UM PT-PT H45531RF 1 1 1 1					*	_
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TEE PROBES UM EN H45531RA 1 1 1 1 TEE PROBES UM IT H45531RD 1 1 1 1 TEE PROBES UM ES H45531RE 1 1 1 1 TEE PROBES UM PT-PT H45531RF 1 1 1 1 TEE PROBES UM PT-PT H45531RF 1 1 1 1		1145574415				
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TEE PROBES UM ES H45531RE 1 1 1 TEE PROBES UM PT-PT H45531RF 1 1 1 1 TEE PROBES UM PT-PT H45531RF 1 1 1 1						
TEE PROBES UM PT-PT					1	
TEL DEODECTIVA IA					1	1
IEE PROBES UM JA H45531RG 1 1 1 1					1	1
	TEE PROBES UM JA	H45531RG	1	1	1	1



TEE DECEMBER 111 / THE					
TEE PROBES UM SV	H45531RJ	1	1	1	1
TEE PROBES UM NO	H45531RK	1	1	1	1
TEE PROBES UM DA	H45531RL	1	1	1	1
TEE PROBES UM PL	H45531RM	1	1	1	1
TEE PROBES UM FI	H45531RN	1	1	1	1
TEE PROBES UM EL	H45531RP	1	1	1	1
TEE PROBES UM RU	H45531RQ	1	1	1	1
TEE PROBES UM NL	H45531RR	1	1	1	1
TEE PROBES UM HU	H45531PL	1	1	1	1
TEE PROBES UM SK	H45531PM	1	1	1	1
TEE PROBES UM RO	H45531PN	1	1	1	1
TEE PROBES UM CZ	H45531PP	1	1	1	1
TEE PROBES UM LV	H45531PQ	1	1	1	1
TEE PROBES UM LT	H45531PR	1	1	1	1
TEE PROBES UM TR	H45531PS	1	1	1	1
TEE PROBES UM ET	H45531PT	1	1	1	1
TEE PROBES UM KO	H45531PW	1	1	1	1
TEE PROBES UM SR	H45531ZQ	1	1	1	1
TEE PROBES UM BG	H45531ZR	1	1	1	1
TEE PROBES UM HR	H45531RH	1	1	1	1
TEE PROBES UM ID	H45531CG	1	1	1	1
TEE PROBES UM Port EU	H45531AN	1	1	1	1
TEE PROBES UM	H45531PL	1	-	1	1
Ukrainian	111000112	_	1	1	1
TEE PROBES UM SL	H45531PT	1	1	1	1
TEE CLEANING SYSTEM	H45551NK	1	1	1	1
TEE STORAGE RACK	H45551NM	1	1	1	1
Software options	11100021111				1
LP7 and LP9 Advanced 3D	H42782LK	1	1	1	1
LP7 and LP9 Auto IMT	H42782LL	1	1	1	1
LP7 and LP9 DICOM	H42782LR	1	1	1	
LP7 and LP9 Elastography	H42782LS	1	1	1	1
LP7 and LP9 Elastography			1		
Quantification	H42782LT	1	1	1	1
LP7 and LP9 Flow					
Quantification	H42782LW	1	1	1	1
LP7 and LP9 LOGIQView	H42782LY	1	1	1	1
LP7 and LP9 Report				1	
Writer	H42782LZ	1	1	1	1
LP7 and LP9 Scan					
Assistant	H42792LA	1	1	1	1
LP7 and LP9 Stress Echo	H42792LB	1	1	1	1
LP7 and LP9 Tissue				7	T
Velocity Imaging TVI	H42792LC	1	1	1	1
, , ,					



LP7 and LP9 B Steer+	H42792LD	1	1	1	1
LP7 and LP9 4D TUI	H42792LF	1	4		
Software	144792LF	1	1	1	1
LP7 and LP9 VOCAL	H42792LG	1	4		
Software	H42/92LG	1	1	1	1
LP7 and LP9 VCI Static	[]42702[]	4			
Software	H42792LH	1	1	1	1
LP7 and LP9 Auto EF	H42792LJ	1	1	1	1
LP7 and LP9 Meas Assist	LI42702LV	1	4		
Breast	H42792LK	1	1	1	1
LP7 and LP9 Meas Assist	H42792LL	4	4		
ОВ	1142/92LL	1	1	1	1
LP7 and LP9 Breast Prod	H42792LM	1	1	1	1
LP7 and LP9 Compare	H42792LN	1			
Assistant	THE TYCLIN	1	1	1	1
LP7 and LP9 Thyroid Prod	H42792LP	1	1	1	1
LP7 and LP9 SWDVR	H42792LR	1	1	1	1
SWDVR Basic	H42922LY	1	1	1	1
LP7-P9 R2 Cardiac Strain	H42822LY	1	1	1	1
LP7-P9 STIC	H42822LZ	1	1	1	1
LP7-P9 Omniview	H42832LA	1	1	1	1
LP7-P9 R3 HD B-Flow	H42892LR	1	1	1	1
LP7-P9 R3 CEUS	H42892LS	1	1	1	1
LP7-P9 R3 HRes CEUS	H42892LT	1	1	1	1
LP7-P9 R3 HDLive	H42892LW	1	1	1	1
LP7-P9 R3 ShearWave	H42892LY	1	1	1	1
LOGIQ P Apps without				-	
Dongle	H42922LM	1	1	1	1
KOIOS SW for LOGIQ P8	11474001144				
P9 P10 R4	H43122LW	1	1	1	1
LOGIQ E10 KOIOS Install	H4919KI	1	1	1	1
UGAP	H43122LK	1	1	1	1
SonoNT SonoIT	H43122LL	1	1	1	1
Sono AVC for Renal	H43122LR	1	1	1	1
Hepatic Assistant	H43132LR	1	1	1	1
Hardware options					_
Pencil Probe CW HW Kit	1147470101				
for LOGIQ P8 P9 P10 R4	H43132LM	1	1	1	1
LP7 and LP9 4D Kit	H42802LD	1	1	1	1
LP7-P9 R2 Battery option	H42832LG	1	1	1	1
LP7-P9 UVC S300	H42832LJ	1	1	1	1
LP7-P9 UVC S300 Japan	H42832LK	1	1	1	1
LOGIQ P Apps	H42892LZ	1	1	1	1
LP7-P9 R3 ext battery	H42902LM	1	1	1	1
	EJULI			1	Τ



LD7 D0 D7 D7 000 0	1				
LP7-P9 R3 R3 ODD Option		1	1	1	1
Pwr supply noise filter	H46162LH	1	1	1	1
LP7 P9 CW HW Kit	H46432LN	1	1	1	1
USB FOOTSWITCH 3 BUTTON	H46732LF	1	1	1	1
ISOLATION TRANSFORMER	H48671WN	1	1	1	1
USB barcode reader	H43132LZ	1	1	1	1
Ethernet Protection					
Cable	H43272LJ	1	1	1	1
ECG options			Was a land		
ECG Module Option Kit					
for LOGIQ P8 P9 P10 R4	H43122LZ	1	1	1	1
ECG CABLE - AHA STYLE	H4910EC	1	1	1	1
ECG CABLES IEC STYLE	H4911JC	1	1	1	1
ME Option					
LP7 AND LP9 PAPER TRAY	H42802LE	1	1	1	1
LP7 AND LP9 OPIO TRAY	H42802LG	1	1	1	1
LP7-P9 R3 Rear handle	H42902LC	1	1	1	1
LP7-P9 R3 Cable Hook			+		1
rear	H42902LD	1	1	1	1
LP7-P9 R3 Gel Warmer	H42902LE	1	1	1	1
LP7-P9 R3 High Cabinet	H42902LG	1	1	1	1
LP7-P9 R3 Drawer	H42902LH	1	1	1	1
LP7-P9 R3 Low Cabinet	H42902LJ	1	1	1	1
LP7-P9 R3 Multi P. holder	H42902LK	1	1	1	1
PROBE CABLE HANGER	H44412LA	1	1	1	1
LOGIQ S7 R3 Small Probe			<u> </u>	тт	1
Holder	H46302LB	1	1	1	1
Peripherals					
Printers					
UP-D25MD PRINTER	H44642LW	1	1	1	1
BW Printer Installation	111101224				1
Kit for LOGIQ P8 P9 P10	H43132LN	1	1	1	1
R4	1113132211	-		1	1
UP-D898 BW Printer Kit	H46992LS	1	1	1	1
Wireless LAN	7.1000000			_	
LP7 P9 W. LESS LAN KIT	H42802LL	1	1	1	1
Power Cords					
Power Cord 220V EU	H46342LZ	1	1	1	1
PWR CORD DK HSP C13			_		1
RED	H46712LT	1	1	1	1
		I			
PWR CORD DK STD C13	H46692LK	1	1	1	1



Destination Sets					
LP7-P9 Destination set					
JAPAN	H40392LA	1	1	1	1
DESTINATION SET	1144543114	4			
TAIWAN	H44512LY	1	1	1	1
DESTINATION SET UK	H46712LM	1	1	1	1
DESTINATION SET S	H46712LN	1	4	4	4
AFRICA	H46/12LN	1	1	1	1
DESTINATION SET	H46712LP	1	1	1	4
ARGENTINA	H40/12LP	1	1	1	1
DESTINATION SET ISRAEL	H46712LR	1	1	1	1
DESTINATION SET SWISS	H46712LS	1	1	1	1
DESTINATION SET US	H46712LW	1	1	1	1
DESTINATION KIT	H46712LZ	1	1	1	1
AUS_NZ	H40/12LZ	1	1	1	1
DESTINATION SET CHINA	H46722LA	1	1	1	1
DESTINATION SET INDIA	H46722LB	1	1	1	1
DESTINATION SET ITALY	H46722LD	1	1	1	1
DESTINATION SET BRAZIL	H46752LW	1	1	1	1
Keyboards and Key Cap Lang	uage Kits				
AN Keyb. Greek black	H42902LR	1	1	1	1
AN Keyb. Norwegian black	H42902LS	1	1	1	1
AN Keyb. Russian black	H42902LT	1	1	1	1
AN Keyb. French black	H42902LW	1	1	1	1
AN Keyb. Swedish black	H42902LY	1	1	1	1
AN Keyb. German black	H42902LZ	1	1	1	1
AN Keyb. English black	H42912LA	1	1	1	1
Upgrade kit					
LP9 R3 to R4 SW	1142002114		4		
conversion	H43092LM	_	1	-	-
Veterinary Use Only					
Vet kit	H46832LC	1	1	1	1
Vet probe caution label	H48492AW	1	1	1	1

Notes

[1] Catalog number identifies the device(s) in the manufacturer's catalog and is usually included on commercial documents like sales contract, order processing documents and shipping documents.

[2] Probes and accessories may carry the CE-mark and when applicable, the Notified Body number corresponding to the EC Declaration under which the products are CE-marked by their manufacturer. GE Ultrasound Korea Ltd. has verified the mutual compatibility of the devices in combination with LOGIQ P10, LOGIQ P9, LOGIQ P8 and included relevant information to users with the LOGIQ P10, LOGIQ P9 and LOGIQ P8 instructions for use.

End of Document



Certificate

The Certification Body of TÜV Rheinland LGA Products GmbH

hereby certifies that the organization

GE ULTRASOUND KOREA, Ltd. 9, Sunhwan-ro 214beon-gil, Jungwon-gu SEONGNAM-SI, GYEONGGI-DO Republic of Korea

has established and applies a quality management system for medical devices for the following scope:

(see attachment for scope and additional site included)

Proof has been furnished that the requirements specified in

EN ISO 13485:2016

are fulfilled. The quality management system is subject to yearly surveillance.

Effective Date:

2020-03-17

Certificate Registration No.:

SX 60146260 0001

An audit was performed. Report No.: 32090188 001

This Certificate is valid until:

2021-11-04

Certification Body



Date 2020-03-17



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg Tel.: +49 221 806-1371 Fax: +49 221 806-3935 e-mail:cert-validity@de.tuv.com http://www.tuv.com/safety



TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

Attachment to Certificate

Registration No.:

SX 60146260 0001

Report No.: 32090188 001

Organization:

GE ULTRASOUND KOREA, Ltd.

9, Sunhwan-ro 214beon-gil, Jungwon-gu SEONGNAM-SI, GYEONGGI-DO

Republic of Korea

Scope:

Design and Development, Manufacture and Final Test of

Ultrasound Diagnostic Devices and Systems

Site Included:

GE Ultrasound Korea, Ltd.

65-1, Sangdaewon-dong, Jungwon-gu

Seongnami-si, Gyeonggi-do 462-120 Republic of Korea

Design and Development, Manufacture and Final Test of

Ultrasound Diagnostic Devices and Systems

Certification Body

Akkreditierungsstelle D-ZM-14169-01-02

Date: 2020-03-17

ÜVRheinland

Balazs Bozsik

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
HD <i>live</i> ™
Coded Contrast (CEUS)
HRES CEUS
Koios Breast Lesion Decision Support4
Koios Thyroid Lesion Decision Support ⁴
Hepatic Assistant⁴ Digital Expert⁴
UGAP
Software DVR Basic
2011.mai.e DAV Dazir

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	
Displayed acoustic	BBT TIS: Thermal Index	
output	Soft Tissue	
output	• TIC: Thermal Index	
	Cranial (Bone)	
	• TIB: Thermal Index Bone	
	 MI: Mechanical Index 	
% of maximum power ou		
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		
Dynamic range		
Dannlarmada		
Doppler mode		
Gain		
Angle Sample volume depth and width		
\A/all filtor		
Velocity and/or frequency 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 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

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: 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	n current exam

Reload of archived data sets

Connectivity & DICOM		
Ethernet network connection		
DICOM 3.0 (option)		
Wireless LAN⁴ (option)		
Varify		
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	
	 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

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

Scalling Farancects
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

Digitaliiiioac	
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

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 Color (HD Color)	Supported on C1-5-RS, 12L-RS, ML6-15-RS, L4- 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

3D

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

Advanced 3D (Option)

Auto fit on monitor

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"

Display format	Write zeem	Colorized enectrum
Gain Tisc Dynamic range Acoustic output Transmission focus position Color flow Transmission focus position Transmission focus number Line density control Sweep speed for M-Mode Number of angles for CrossXBeam FW-Mode Gain Dynamic range Acoustic output Transmission focus position Color map Transparency map FW-Mode Gain Dynamic range Acoustic output Transmismin frequency PRF Transmission frequency PRF Transmission focus position CPM dipply threshold Dynamic range Acoustic output Transmission frequency PRF Measurements/Calculations General B-Mode Depth Anatomical M-Mode on Cine loop Transmission frequency PRF Welocity scale Color Flow Mode CPM gain CPM dipply threshold Depth Anatomical M-Mode Velocity scale CPM gain CPM rea (ellipse/trace) Acoustic output Wall echo filter Packet size Transmission focus quality Acoustic output Wall echo filter Packet size Transmission focus quality Transmission CPM dipply threshold Distance Titume	Write zoom	Colorized spectrum
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Sweep speed MD (Minimum Diastole) Invert spectral wave form PI (Pulsatility Index)		
Invert spectral wave form PI (Pulsatility Index)		
Lomproccion KLIKESISHVIIVIIIIIAEXI		
	Compression	
Rejection AT (Acceleration Time)	Relection	

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 convex 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 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		
Endocavitory 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			
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,
	1

	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, Peripheral Vascular
Linear probe		Pioney guido	N/A
Applications	Abdomen (incl. Pleural), Small Parts, Vascular (No transcranial), Pediatric, Neonatal, Musculoskeletal, Breast	3Sc-RS Phased array secto	
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	
	transverse)	Phased array secto Applications	r probe Cardiac, Pediatrics, Neonatal
12L-RS		Biopsy guide	N/A
Linear probe Applications	Small Parts, Vascular (No		
Аррисаціонѕ	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	convex volume probe
01.00	(H40432LC)	Applications	OB/GYN (Transvaginal), Urology (Transrectal)
9L-RS Linear probe		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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Readers must consult a healthcare professional.





LOGIQ[™] P9 XDclear[™]

Probe Guide



The LOGIQ P9 XDclear is a highly capable ultrasound system that provides excellent image quality and productivity through easy-to-use tools across a wide range of applications in a portable, ergonomic, budget-friendly system design.

	Description	Applications	FOV	Bandwidth	Biopsy Guide
	Convex Array				
C1-5-RS H40462LA	Wideband convex array probe	Abdomen, OB/GYN, Urology, Vascular	70°	1 – 6 MHz	Multi-angle, disposable with a reusable bracket (H40432LE)
C1-6-D	Broad-spectrum convex probe	Abdominal, Obstetrics, Gynecology	70°	1 – 6 MHz	Multi-angle, disposable with a reusable bracket (H4913BB)
C2-7-D	Broad-spectrum micro-convex biopsy probe	Abdominal	110°	1 – 6 MHz	Multi-angle, disposable with a reusable bracket (H40482LK)or a reusable stainless bracket (H40482LK)
	Micro-convex Arra	у			
8C-RS H40402LS	Wideband micro-convex array probe	Neonatal, Pediatrics	132°	3 – 11 MHz	No
10C-D	Broad-spectrum micro-convex probe	Neonatal, Pediatrics, Vascular	102°	4 – 12 MHz	No
E8C-RS H40402LN	Wideband micro-convex intra-cavitary array probe	OB/GYN, Urology, Endocavity	132°	3 – 11 MHz	Single-angle, disposable with a disposable bracket (E8385MJ, E8333JB), Single-angle, reusable bracket (H40412LN)
E8Cs-RS H48062AF	Wideband micro-convex intra-cavitary array probe	OB/GYN, Urology, Endocavity	168°	3 – 11 MHz	Single-angle, disposable with a disposable bracket (E8385MJ, E8333JB), single-angle, reusable bracket (H40412LN)
IC9-RS H48691PJ	Wideband micro-convex intracavity array probe	OB/GYN, Urology, Endocavity	168°	2 – 11 MHz	Single-angle, disposable with a disposable bracket (H48691YW), Single-angle, reusable bracket (H48701MN)
BE9CS-RS H40482LN	Wideband micro-convex intra-cavitary bi-plane array probe	Urology, Transrectal	127°×2	3 – 12 MHz	Single-angle, reusable (E8387MA), disposable (E8387M), disposable starter kit (H42742LH), disposable starter kit (H42742LJ)

	Description	Applications	FOV	Bandwidth	Biopsy Guide
	Linear Array				
ML6-15-RS H40462LM	Wideband linear matrix array probe	Small Parts, Vascular, Neonatal, Pediatrics, Musculoskeletal	50 mm	4 – 15 MHz	Multi-angle, disposable with a reusable bracket (H40432LJ)
L3-12-RS H44901AP	Wideband Linear Array Probe	Vascular, Small Parts, Neonatal, Pediatrics, Abdomen	51.2 mm	2 – 11 MHz	Multi-angle, disposable with a reusable bracket (H48032AA)
L10-22-RS H48312AH	Wideband linear array probe	Small Parts, Neonatal, Musculoskeletal	13 mm	7 – 20 MHz	No
12L-RS H40402LY	Wideband linear array probe	Small Parts, Vascular, Pediatrics, Neonatal, Musculoskeletal	38 mm	3 – 12 MHz	Multi-angle, disposable with a reusable bracket (H40432LC), transverse disposable with a reusable bracket (H48392LL), infinite angle disposable with a reusable bracket (H48392LT)
L4-12t-RS H48062AB	Wideband linear array probe	Small Parts, Vascular, Pediatric, Neonatal, Musculoskeletal	38 mm	3 – 12 MHz	Multi-angle, disposable with a reusable bracket (H40432LC), multi-angle, disposable with a reusable bracket (H48392LL), multi-angle, disposable with a reusable bracket (H48392LT)
9L-RS H40442LL	Wideband linear array probe	Vascular, Small Parts, Pediatrics, Abdomen	44 mm	2 – 8 MHz	Multi-angle, disposable with a reusable bracket (H4906BK)
L6-12-RS H48062AC	Wideband linear array probe	Small Parts, Vascular, Pediatrics, Neonatal, Abdomen	38.4 mm	5 – 11 MHz	Multi-angle, disposable with a reusable bracket (H40432LC)
L8-18i-RS H40462LF	Wideband linear array probe	Small Parts, Vascular, Pediatrics, Neonatal, Intraoperative	25 mm	4 – 15 MHz	No
L3-9i-RS H46442LK	Wideband linear array probe	Small Parts, Vascular, Musculoskeletal, Intraoperative	38 mm	2 – 9 MHz	No

		ı	i		
	Description	Applications	FOV	Bandwidth	Biopsy Guide
	Sector Array				
3Sc-RS H45041DL	Wideband sector array probe	Cardiac, Abdomen, Transcranial	120°	1 – 5 MHz	Multi-angle, disposable with a reusable bracket (H46222LC)
6S-RS H45021RP	Wideband sector array probe	Cardiac, Neonatal, Pediatric	90°	2 – 8 MHz	No
12S-RS H44901AB	Wideband sector array probe	Pediatric, Neonatal	90°	4 – 12 MHz	No
6Tc-RS H45551ZE	TEE probe	Cardiac	90°	2 – 8 MHz	No
	Real-time 4D				
RAB2-6-RS H48681WR	Wideband real-time 4D probe	Abdomen, OB/GYN, Urology	66° (B), 85° (Volume scan)	1 – 5 MHz	Multi-angle, disposable with a reusable bracket (H48681ML)
RIC5-9A-RS H48701EJ	Wideband real-time 4D intra-cavitary probe	Endocavity, OB/GYN, Urology	146° (B) 120° (Volume angle)	3 – 10 MHz	Single-angle, reusable bracket (H46721R), Single-angle, disposable (H48681GF)
	Specialty				
P8D H46312LZ	CW split crystal pencil probe	Cardiac, Vascular	N/A	8 MHz	No
P6D H4830JG	CW split crystal pencil probe	Cardiac, Vascular	N/A	6 MHz	No
P2D H4830JE	CW split crystal pencil probe	Cardiac, Vascular	N/A	2 MHz	No





LOGIQ P9 R4 Product Spec Sheet (Global version)

DOC2589390 Rev1

June 24, 2021

General Specifications	June 24, 202
Dimensions and Weight	
Height	 Articulating monitor arm (standard) Maximum: 1345 mm (53.0 inch) Minimum: 1595 mm (62.8 inch)
Width	 Keyboard: 430 mm (16.9 inch) Foot cover: 495 mm (19.5 inch) Monitor: 545 mm (21.5 inch; 23.8 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	
Maximum thermal output: 700 BTU/hr	
Console Design	
4 active probe ports (3 x RS and 1 x DLP)	
1 CW pencil probe port	
Probe light	
Integrated Solid State Drive (capacity: 500 GB)	
Integrated DVD ± R/W multi drive (option)	
On-board storage for B/W-printer	
Integrated speakers	
Wheels:	Wheel diameter: 125 mm
	 Locking mechanism that provides rolling lock and caster swivel lock
Probe holders, removable for cleaning and washing	
Gel holder with integrated gel warmer (option), removable	for cleaning and washing
Integrated cable management	
Easily removable air filters	
Front and rear handles (option)	
User Interface	
Operator Keyboard	
Operating keyboard adjustable in two dimensions:	Height: 810-910 mmRotation: ±30°
Digital TGC and digital A/N keyboard	
Backlit alphanumeric keyboard (option), 16 mm spacing	
Ergonomic hard key layout	



Single CW (pencil) probes Volume probes (4D)

Multigestational Touch control Interactive back-lighting Integrated recording keys for remote control of up to 8 peripheral devices or DICOM® devices **Touch Screen** 10.4" wide LCD, high resolution, color touch screen Interactive dynamic software menu Brightness adjustment User-configurable layout Monitor 23.8inch Bezel-less LCD LED backlight monitor Tilt/rotate/translate • Tilt angle +15°/-90° Rotate angle ±90° • Translate horizontal 660 mm • Translate vertical 150 mm Fold-down and lock mechanism for transportation Brightness and contrast adjustment Horizontal/vertical viewing angle of ±178° Articulating monitor arm **System Overview Applications** Abdominal Obstetrical Gynecological **Breast Small Parts** Musculoskeletal and Superficial Vascular Urological **Endocavitary** Transvaginal Transrectal Pediatric and Neonatal Transcranial Transesophageal Cardiac Intraoperative **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



Operating Modes	
B-Mode	
Coded Harmonic Imaging	
M-Mode	
Color Flow Mode (CFM)	
Power Doppler Imaging (PDI) with directional map	
PW Doppler with high PRF	
M-Color Flow Mode	
Anatomical M-Mode	
Anatomical M-Color Mode	
B-Flow™/B-Flow Color Mode (option)	
Extended Field of View (LOGIQView, option)	
B Steer+ (option)	
Coded Contrast Imaging (option)	
CW Doppler Mode (option)	
Tissue Velocity Imaging (TVI) Mode (option)	
Strain Elastography (option)	
SW DVR (option)	
Shear Wave Elastography (option)	
HD <i>live</i> ™ (option)	
UGAP (option)	
3D/4D Volume Modes:	• 3D static (option)
35/45 Volume Modes.	• 4D real-time (option)
	la real arms (eparent)
System Standard Features	
SSD disk partition of 345 GB for image storage without compression	
	• DICOM: compressed/
SSD disk partition of 345 GB for image storage without compression	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw
SSD disk partition of 345 GB for image storage without compression	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data
SSD disk partition of 345 GB for image storage without compression	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw
SSD disk partition of 345 GB for image storage without compression Storage formats	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel
SSD disk partition of 345 GB for image storage without compression Storage formats	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD)	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer Coded Harmonic Imaging	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer Coded Harmonic Imaging Virtual convex	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer Coded Harmonic Imaging Virtual convex Easy 3D	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer Coded Harmonic Imaging Virtual convex Easy 3D Anatomical M-Mode	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer Coded Harmonic Imaging Virtual convex Easy 3D Anatomical M-Mode Patient information database	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer Coded Harmonic Imaging Virtual convex Easy 3D Anatomical M-Mode Patient information database Image archive on integrated CD/DVD (option) and SSD	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer Coded Harmonic Imaging Virtual convex Easy 3D Anatomical M-Mode Patient information database Image archive on integrated CD/DVD (option) and SSD Easy backup to media for data security	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer Coded Harmonic Imaging Virtual convex Easy 3D Anatomical M-Mode Patient information database Image archive on integrated CD/DVD (option) and SSD Easy backup to media for data security TruAccess, raw data processing and analysis	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization
SSD disk partition of 345 GB for image storage without compression Storage formats Advanced user interface with high resolution 10.4" wide LCD touch Automatic optimization CrossXBeam™ compounding Speckle Reduction Imaging (SRI-HD) Fine angle steer Coded Harmonic Imaging Virtual convex Easy 3D Anatomical M-Mode Patient information database Image archive on integrated CD/DVD (option) and SSD Easy backup to media for data security	DICOM: compressed/ uncompressed, single/multi-frame, with/without raw data Export JPEG, WMV (MPEG 4), and AVI formats panel Auto tissue optimization Auto spectral optimization



Fetal trending
Multi gestational calcs
Hip dysplasia calcs
Gynecological calcs
Vascular calcs
Cardiac calcs
Urological calcs
Renal calcs
InSite™ ExC capability, remote service
iLing capability, remote service
On-board electronic documentation (PDF format)
MPEGVue
Key macro
Network storage
Quick save
Quick patient entry
TIC motion tracking
My Page
My Trainer+
Email to MMS
Reset
Tricefy™
Privacy and Security
Multigestational Touch control
IOTA (International Ovarian Tumor Analysis) LR2 worksheet
Note) IOTA is not available in USA, Japan and China.
Note) IOTA is not available in USA, Japan and China. Vnav Import
Vnav Import
Vnav Import Doppler Assistant
Vnav Import Doppler Assistant MyPreset
Vnav Import Doppler Assistant MyPreset SonoRenderLive
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView B-Flow/B-Flow Color
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView B-Flow/B-Flow Color CF/PDI Quantification
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView B-Flow/B-Flow Color CF/PDI Quantification Measure assist breast Measure assist OB
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView B-Flow/B-Flow Color CF/PDI Quantification Measure assist breast Measure assist OB Breast productivity package
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView B-Flow/B-Flow Color CF/PDI Quantification Measure assist breast Measure assist OB
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView B-Flow/B-Flow Color CF/PDI Quantification Measure assist breast Measure assist DB Breast productivity package Thyroid productivity package B Steer+
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView B-Flow/B-Flow Color CF/PDI Quantification Measure assist breast Measure assist OB Breast productivity package Thyroid productivity package B Steer+ Stress Echo
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView B-Flow/B-Flow Color CF/PDI Quantification Measure assist Des Measure assist OB Breast productivity package Thyroid productivity package B Steer+ Stress Echo Tissue Velocity Imaging (TVI) with Q-Analysis
Vnav Import Doppler Assistant MyPreset SonoRenderLive System Options Auto IMT AutoEF Strain Elastography Elastography Quantification Advanced 3D with 3D landscape DICOM 3.0 connectivity LOGIQView B-Flow/B-Flow Color CF/PDI Quantification Measure assist breast Measure assist OB Breast productivity package Thyroid productivity package B Steer+ Stress Echo



Report writer	
ECG	
ECG AHA cable	
ECG IEC cable	
CW Doppler	
Q-Path	
SW DVR Basic	
SW DVR	Storage: CD/DVD media
	Storage: USB memory stick
Real-time 4D	
4D TUI	
Static 3D color	
Volume review	
VOCAL	
VCI static	
STIC	
OmniView	
Offline scanning	
Shear Wave Elastography	
HDlive	
HRES CEUS	
LOGIQ P Apps (Software key only)	
AFI	
Coded Contrast (CEUS)	
Koios Breast Lesion Decision Support4	
UGAP	
Hepatic Assistant	
SonoAVC Renal	
SonoNT/SonoIT	
Start Assistant	
Digital Expert	
High cabinet	
Low cabinet	
Drawer	
Side tray	
Small probe adaptor	
Vertical endocavitary probe holder	
Probe cable hanger	
Cable hook rear	
Card reader mounting kit	
Paper tray	
OPIO tray	
Gel warmer	
Multipurpose holder	
Physical A/N keyboard	
Peripheral Options	
Integrated mounting kits and remote controls provided for B/W dig	tal thermal printer
Digital color A6 thermal printer	
Digital color A5 thermal printer	
Barcode reader (for reading needle information)	
External USB printer connection	



Wireless LAN card for wireless data transfer	
LOGIQ P apps (Bluetooth)	
HDMI output available for compatible devices	
Foot switch, with programmable functionality, 3-pedal	
Universal video converter	
Power assistant (battery or extended battery option) for offline so	canning
Isolation transformer	
S-video	
Composite output	
EMI filter	
Display Modes	
Live and stored display format: full size and split screen – both with	th thumbnails. For still and CINE
Review image format: 4x4, and "thumbnails." For still and CINE	
Simultaneous capability	• B/PW
	B/CFM or PDI
	• B/M
	• B + CFM/M
	• Real-time Triplex Mode (B + CFM or PDI/PW or CW)
	• B-Flow + PW
	• Dual B (B/B)
Selectable alternating modes	• B/M
	• B/PW
	• B + CFM/M
	• B + CFM (PDI)/PW (CW)
	• B-Flow + PW
	• 3D – Mode
	• 3D – Mode Color
	• B/CW
	• B + CFM (PDI)/CW
	B · Ci W (i Bijj ew
Multi-image split screen (quad screen)	Live and/or frozen
mate mage spire soreem (quad soreem)	• B + B/CFM or PDI
	• PW/M
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Independent CINE playback	
Zoom: write/read/pan	
Colorized image	Colorized B
Colonized image	• Colorized M
	• Colorized PW
	• Colorized CW
	Colorized GW Colorized B-Flow
	Colonized B-1 low
Time line disular	
Time line display	
Independent dual B/PW display	
CW	T - 11 - 11 - 11 - 11 - 11 - 11 - 11 -
Display formats:	• Top/bottom selectable
	format (size: 1/2:1/2; 1/3:2/3; 2/3:1/3)
	• Side/side selectable format (size: 1/2:1/2; 1/3:2/3; 0:1)
	switchable after freeze



(36)	
Timeline only	
Virtual convex	
CrossXBeam	
Tissue Velocity Imaging (TVI) Mode	
Elastography and simultaneous B/Elasto	
UGAP/SWE simultaneous	
Display Annotation	
Patient name: first, last and middle name each store 27 cha	practors. Up to 64 total characters displayed
Patient ID: 31 characters. Up to 27 characters displayed	aracters. Op to 04 total characters displayed
2nd patient ID	
Age, sex and date of birth	
Hospital name: 23 characters	
Date format:	• MM/DD/YY
	• DD/MM/YY
3 types selectable	
	• YY/MM/DD
Time format:	a 24 hours
	• 24 hours
2 types selectable	• 12 hours
Gestational age from LMP/EDD/GA/BBT	
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
	• Edge enhance
	Frame averaging
	Gray map
	• ATO on/off
	• SRI-HD
	CrossXBeam
M-Mode	• Gain
	Dynamic range
	• Time scale
	Time scale
Doppler Mode	• Gain
Doppler Mode	
	Angle Sample volume depth and width
	Sample volume depth and width Mall filter
	Wall filter Valacity and (an frague as a sale)
	Velocity and/or frequency scale
	• Spectrum inversion
	• Time scale
	• PRF
	Doppler frequency



Color Flow Mode	• Line density
50.5. 1.6.160	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
	Color scale inversion
	Color doppler frequency
	- color doppler frequency
TGC curve	
Acoustic frame rate	
CINE gage, image number/frame number	
DVR counter and status	
Body pattern: multiple human and animal types	
Application name	
Measurement results	
Operator message	
Displayed acoustic output	TIS: Thermal Index Soft Tissue
	• TIC: Thermal Index Cranial (Bone)
	TIB: Thermal Index Bone
	MI: Mechanical Index
% of power output	
Biopsy guide line and/or zone	
Heart rate	
General System Parameters	
System Setup	
8 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 on	
OB report format: 5 types, Tokyo Univ., Osaka Univ., USA, Europe,	and ASUM
EFBW: 10 types, Japan, USA and Europe (Tokyo Uni., Osaka Univ., 7	Fokyo Shinozuka, JSUM, German, Shepard, Merz,
Hadlock/Shepard, Williams, Brenner)	
Pre-defined annotations and user programmable	
User defined libraries/annotations	
Body patterns	
Customized comment home position	
Complete User Manual Available On Board Through Help (F1)	

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



CINE memory: 776 MB	
Selectable CINE sequence for CINE review	
Prospective CINE mark	
Measurements/calculations and annotations on CINE playback	
Scrolling timeline memory	
CINE capture function	
Digital continuous CINE capture	
Dual image CINE display	
Quad image CINE display	
CINE gauge and CINE image number display	
CINE review loop	
CINE review speed: 10 steps (11, 13, 14, 17, 22, 25, 31, 100, 200, 40	0%)
Image Storage	G761
On-board database of patient information from past exams	
Storage formats:	DICOM: compressed/ uncompressed, single/multi- frame, with/without Raw Data
Storage formats: (cont.)	• Export JPEG, JPEG2000, WMV (MPEG 4), and AVI formats
DICOM still image storage size: ~2.1 MB	
Gray image: ~1.3 to ~3.5 MB	
Color image: ~1.8 to ~5.0 MB	
Display format: full size, 4x4 and "thumbnails"	
Storage devices:	 Internal Solid-State Drive partition of 345 GB for image storage External USB 2.0 hard drive support for import, export, DICOM read, SaveAs and MPEGVue USB memory stick support for SaveAs and MPEGVue (64 MB to 4 GB) CD-R storage: 700 MB DVD storage: -R (4.7 GB)
Conversion to formats: JPEG, AVI, WMV	
Live image and stored image side-by-side display	
Compare old images with current exam	
Reload of archived date sets	_
Network storage support for import, export, DICOM read, SaveAs, I	MPEGVue
Connectivity & DICOM	
Privacy and Security	Password Policies
	Provides the ability to specify password policies for user
	accounts
	Session Management
	Lock screen after minutes (configurable)
	Hard Disk Encryption
	Encrypts patient data archive partition Provides whitelisting type makes a protection
	 Provides whitelisting type malware protection TPM Support for security



DICOM 3.0 (option)

- Verify
- Print
- Store
- Modality worklist
- Storage commitment
- Modality Performed

Procedure Step (MPPS)

- Media exchange
- Off network/mobile

storage queue

- Query/retrieve
- Structured reporting
- Public SR template
- Structured reporting compatible with vascular and OB standard
- Direct export DICOM SR and XML
- Media store of SR
- InSite ExC capability

Ethernet network connection

Wireless LAN (option)

LOGIQ P Apps

Physiological Input Panel

Physiological input

ECG, 2 lead

Dual R trigger

Pre-settable ECG R delay time

Re-settable ECG position

Adjustable ECG gain control

Automatic heart rate display

Scanning Parameters

Digital P-Agile beamformer architecture

386,469 system processing channels

Max. frame rate up to 3229 F/s

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)

Transmission focus: 1 – 8 focal points selectable (probe and application dependent)

Quad beamforming

Continuous dynamic receive focus/aperture

Multi-frequency/wideband technology

Frequency range: 2 – 22 MHz

256 shades of gray

Dynamic range > 400dB in system level (composite dynamic level)

Adjustable dynamic range

Adjustable Field Of View (FOV): Up to 168 degree (depending on probe)

Image Reverse: right/left

Image rotation: 4 steps of 0°, 90°, 180°, 270°

Digital B-Mode

Acoustic power output: 0 – 100%, 25 steps

Gain: from 0 – 90 dB, 1 dB step

Dynamic range: 36 - 96 dB, 3 dB or 6 dB steps



Frame averaging: 8 steps Gray scale map: 7 types

Tint map: 9 types

Frequency: up to 5 selectable (depending on probe)

Speed of sound (probe, application dependent)

Line density: 5 steps
Line density zoom: 5 steps
Thermal index: TIC, TIS, TIB

Image reverse: on/off
Focus number: 8 steps

Focus width: 3 types
Suppression: 6 steps
Edge enhance: 7 steps

Rejection: 6 steps Steered linear: ±12°

Scanning size (FOV or angle – depending on the probe)

SRI-HD: up to 6 levels selectable

CrossXBeam: up to 9 angles selectable

Depth: 1 – 48 cm, 1 cm step, probe dependent

Digital M-Mode

Gain: -20 – 20 dB, 1 dB step Compression: 0.5 – 2.4, 13 steps

Sweep speed: 0 – 7, 8 steps

Frame averaging

Gray scale map: 7 types M colorization: 9 types

Frequency Line density

Scanning size (FOV or angle – depending on probe, see probe specifications)

Rejection: 6 steps

M/PW display format: V-1/3B, V-1/2B, V-2/3B, H-1/2B, H-1/4B, timeline only

Anatomical M-Mode

M-Mode cursor adjustable at any plane

Can be activated from a CINE loop, from a live or stored image

M & A capability

Available with Color Flow Mode

Curved Anatomical M-Mode

Digital Spectral Doppler Mode



Adjustable:

• Acoustic power: 0 - 100, 25 steps

Gain: 0 – 85, 86 stepsGray scale map: 8 types

• Transmit frequency: up to 5 steps, depends on probe

• Wall filter: 5.5 - 5000 Hz, 27 steps

PW colorization: 6 typesVelocity scale range: 8 steps

• Sweep speed: 8 steps

• Sample volume length: 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 14,

16 mm

Angle correction: ±90°, 1° step
Steered linear: 7 steps
Spectrum inversion: on/off
Trace method: 3 steps

Baseline shift: 5 to 95%, 11 steps
Doppler auto trace: 3 steps
Compression: 12 steps
Trace direction: 3 steps
Trace sensitivity: 21 steps

Digital Color Flow Mode

Baseline: 0 - 100%, 11 steps

Invert: on/off

CF/PDI focus depth: default pre-settable for 10 - 100% of ROI in depth, 6 steps

CF/PDI flash suppression: 5 steps

CF/PDI angle steer: 0, ±20°

Packet size: 8 – 24, dependent on probe and application

Line density: 5 steps
Line density zoom: 5 steps
Frame average: 7 steps

PRF: 0.1 – 23.5 kHz/20 steps Spatial filter: 6 steps

Gain: 0 – 40 dB, 0.5 dB steps

Composite dynamic range: 174 – 270 dB, 3 dB or 6 dB steps

Wall filter: 4 steps, dependent on probe and application

Scanning size (FOV or angle): probe dependent

CF/PDI vertical size (mm) of ROI: default pre-settable

CF/PDI center depth (mm) of ROI: default pre-settable

CF/PDI frequency: up to 5, depending on probe

Color maps, including velocity-variance maps: 20 types depending on application

Transparent: 5 steps

Color threshold: 0 - 100%, 11 steps

Arbitration threshold: 15 steps pre-settable

Auto line density: on/off pre-settable

PW/CF ratio: 1, 2, 4
Accumulation: 8 steps

Quantification

Digital Power Doppler Imaging

PDI map: 16 types

CF/PDI focus depth: default pre-settable for 10 - 100% of ROI in depth, 6 steps

CF/PDI acoustic output: 0 - 100%, 10% steps



CF/PDI angle steer: 0, ±20° Packet size: 8 – 24, dependent on probe and application Spatial filter: 6 steps Frame average: 7 steps PRF: 0.1 – 23.5 kHz/20 steps Power threshold: 0 - 100%, 11 steps Arbitration threshold: 15 steps pre-settable Gain: 0 – 40 dB, 0.5 dB steps Wall filter: 4 steps depending on probe and application CF/PDI frequency: up to 5 steps, depending on probe Auto line density: on/off pre-settable Transparent: 5 steps Invert: on/off Accumulation: 8 steps Flash suppression **PW/CW Wave Doppler** • Max. 10.34 m/s Velocity scale: • Min. 0.06 m/s Gray scale map: 8 types Baseline: 5 – 95%, 11 steps SV gate: 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 mm Angel correct: ± 90°, 1° step Spectral color: 6 types PW sweep speed: 8 steps Invert: on/off M/PW display format: V-1/3B, V-1/2B, V-2/3B, H-1/2B, H-1/4B, timeline only Duplex: on/off (PW only) PW/CF ratio: 1, 2, 4 Gain: 0 - 85 dB, 1 dB steps Wall filter: 5.5 – 5000 Hz, 27 steps, dependent on probe and application PW angle steer: 0, ±10, 15, 20° PRF: 0.5 - 26.7 kHz with PW, 0.4 - 49.0 kHz with CW Sample volume depth: 30 steps default pre-settable CW-Mode is available on the following probes: 3Sc-RS 6S-RS • 12S-RS P2D P8D P6D Steerable CW Mode includes Transmit frequency CW colorization Velocity scale range Spectrum inversion Trace method Doppler auto trace Trace direction Trace sensitivity **Automatic Optimization**



Optimize B-Mode, B-Flow image to improve contrast resolution. Selectable amount of contrast resolution improvement (low, medium, high)

Auto TGC	
СТО	
Auto-spectral optimize adj	Baseline
	• Invert
	PRF (on live image)
	PRF (on live image)Angle correction

Coded Harmonic Imaging

Available on all imaging probes

Line density: 5 steps
Line density zoom 5 steps

Suppression: 6 steps Edge enhance: 7 steps Gray scale map: 7 types

Gain: 0 - 90 dB, 1 dB step

Tint map: 9 types

Dynamic range: 36 – 96 dB, 3 dB or 6 dB steps

Rejection: 6 steps

Frequency: up to 4 steps, probe depended

B-Flow/B-Flow color (option)

Available on C1-6-D, C2-7-D, 10C-D, 9L-RS, 12L-RS, ML6-15-RS, L8-18i-RS, C1-5-RS, 8C-RS, L6-12-RS, L4-12t-RS, L10-22-RS, L3-9i-RS, E8CS-RS, BE9CS-RS, L3-12-RS, IC9-RS probes

Hybrid B-Flow: Available 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

B & B-Flow simultaneous dual display

B & B-Flow overlay display

B-Flow High Definition Color (HD Color): Available on C1-5-RS, 12L-RS, ML6-15-RS, L4-12t-RS, L3-12-RS and C1-6-D probes

Background: on/off Sensitivity/PRI: 17 steps Line density: 5 steps

Edge dnhance: 7 steps
Frame average: 8 steps
Gray scale map: 8 types

Tint map: 9 types

Dynamic range: 36 - 96 dB, 3 dB or 6 dB steps

Rejection: 6 steps Gain: 0 – 90 dB, 1 dB step

Dual Beam: on/off pre-settable

B-Flow Color: 8 color maps and 6 directional maps

Accumulation: 8 steps

Coded Contrast Imaging (option.)

AM mode : Available on C1-6-D, C2-7-D, C1-5-RS, 9L-RS, 3Sc-RS, BE9CS-RS, IC9-RS

HRes mode : Available on C1-6-D, C2-7-D, C1-5-RS, 9L-RS, 3Sc-RS

AM mode frequency : General, Resolution and Penetration

HRes mode frequency: General Tissue background selection: 4 steps

Display tissue image and contrast enhanced image simultaneously in split screen

2 separate contrast timers

Timed updates: 0.05 – 10 seconds Accumulation mode: 6 steps



Max Enhancement Mode: on/off
Gray scale map: 21 types
Colorization: on/off
Time trigger scan: 0.3 & 0.5 – 10 sec, 0.5 sec step

Flash/Burst Mode

Time Intensity Curve (TIC) analysis

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.

LOGIQView (option)	
Extended Field of View imaging	
Available on all imaging probes	
For use in B-Mode	
CrossXBeam is available on linear probes	
Auto detection of scan direction	
Pre or post-process zoom up to 10x	
Rotation	
Auto best fit on monitor	
Measurements in B-Mode	
Up to 60 cm scan length	
Easy 3D (available on all imaging probes)	
Colorize image	
Threshold (opacity)	
Render	
Texture	
Gray surface	
Scalpel	
Auto movie	
Undo	
Reset	
Allows unlimited rotation and planar translation	
3D reconstruction from CINE sweep	
Advanced 3D (Available On All Imaging Probes) (option)	
Acquisition of color data	
Automatic rendering	
3D landscape technology	
3D movie	
Main Mode	
Real-time 4D (option)	
Acquisition modes:	Real-time 4D mode
	Static 3D mode



Visualization modes:	• 3D rendering (diverse
visualization modes.	surface and intensity
	projection modes)
	• Sectional planes (3 section planes perpendicular to each
	other)
	Volume contrast
	imaging-static
	Tomographic ultrasound imaging
	Tomograpme ditrasound imaging
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	I
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
ratemated volume edicaletion voerten (option)	• Auto sweep
	- Auto sweep
STIC (option)	<u> </u>
HDlive™ (option)	
VCI Static (option)	
Omniview (option)	VCI OmniView
Scan Assistant (option)	
Workflow enhancement tool for standardized and repetitive	e exams
Include factory programs	
User-defined programs and import functionality	
Steps include image annotations, mode transitions, basic im	aging controls and measurement initiation
Compare Assistant (Option)	
Side-by-side comparison of previous ultrasound and other n	nodality exams during live scanning
Report Writer (option)	
On-board reporting package automates report writing	
Formats various exam results into a report suitable for print	
Exam results include patient info, exam info, measurements	, calculations, images, comments and diagnosis
Standard templates provided	
Customizable templates	
Thyroid reporting template	
Strain Elastography (option)	
	l2-RS, L4-12t-RS, E8CS-RS, BE9CS-RS, L3-12-RS, IC9-RS probes
E index: 8 maximum	
E index: 8 maximum E ratio: 7 maximum	



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

TVI (option)

Myocardial Doppler Imaging with color overlay on tissue image

Available on all 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 creating new templates

Reference scan display during acquisition for stress level comparison (dual screen)

Baseline level/previous level selectable

Raw data continuous capture (over 180 sec available)

Wall motion scoring (bulls-eye and segmental)

Smart stress: automatically set up various scanning parameters (e.g. geometry, frequency, gain, etc.) according to same projection on previous level

Shear Wave Elastography (Option)

Available on 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.

Measurement range in m/s (Min. - Max.): 0-10 m/s

Measurement range in kPa (Min. - Max.): 0-300 kPa

Single and dual view display

Auto EF (Option)

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

User editable

Virtual Convex

Provides a convex Field of View

Compatible with CrossXBeam

Available on all linear and sector transducers

SRI-HD

High definition speckle reduction imaging

Provides multiple (6) 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/4D imaging

Pre and post processing

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 on linear probes

Available on C1-5-RS, 8C-RS, E8C-RS, 9L-RS, 12L-RS, ML6-15-RS, L8-18i-RS, RAB2-6-RS, L6-12-RS, L4-12t-RS, L10-22-RS, L3-9i-RS, E8CS-RS, BE9CS-RS, RIC5-9A-RS, L3-12-RS, IC9-RS 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
Anadamiral M. Mada	
Anatomical M-Mode Max. read zoom to 8x	
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
	, tate angle correct
Color Flow-Mode	Overall gain (loops and stills)
	Color map
	Transparency map
	• Frame averaging (loops only)
	• Flash suppression
	CFM display threshold
	Spectral invert for Color/Doppler
	Spectral invertible colory boppier
Anatomical M-Mode on CINE loop	
4D	Gray map, colorize
	Post gain
	 Change display – single, dual, quad sectional or
	rendered
Measurements/Calculations	
General B-Mode	
Depth & 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	
<u> </u>	



Heart rate

General Doppler Measurements/Calculations

Velocity

Time

A/B ratio (Velocities/Frequency ratio)

PS (Peak Systole)

ED (End Diastole)

PS/ED ratio

ED/PS ratio

AT (Acceleration Time)

ACC (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 ratio

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)

- LV (Length of Vertebra)
- 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	• AC, BPD
(EFW) by:	• 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
Calculations and ratios	
	• FL/AC
	• FL/HC
	• HC/AC
	• CI (Cephalic Index)
	AFI (Amniotic Fluid Index)
	CTAR (Cardio-Thoracic Area Ratio)

Measurements/calculations by: ASUM, ASUM 2001, Bahlmann, Baschat, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chitty, Ebbing, Eik-Nes, Ericksen, Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kurmanavicius, Kurtz, Mari, Mayden, Mercer, Merz, Moore, Nelson, Osaka Univ., Paris, Rempen, Robinson, Shepard, Shepard/Warsoff, Tokyo Univ., Tokyo/Shinozuka, WHO, 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 calcs

Expanded worksheets

Growth percentiles: Hadlock, Brenner, Williams, Kramer (f), Kramer (m)

Measure Assistant Breast (Option)

Allows automatic contour and measurement of breast lesions in a user selected ROI

Feature assessment

BI-RADS® assessment

User editable

Measure Assistant OB (Option)

Allows automatic measurement of BPD, HC, FL and AC

User editable

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



IOTA (International Ovarian Tumor Analysis) LR2 worksheet

Note) IOTA is not available in USA, Japan and China.

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)

Auto IMT

Summary reports

Urological Measurements/Calculations

Bladder volume

Prostate volume

Left/right renal volume

Generic volume

Post-void bladder volume

Cardiac Measurements/Calculations

Cardiac calculation package including extensive measurements and display of multiple repeated measurements

Parameter annotation follow ASE standard

My Trainer+

An electric manual for first time user for the system

Available self-setup system

System setup

Maintenance

Ergonomics

Basic operation (button/layout/touch panel layout/monitor layout/basic workflow)

My Page

Collection of user's favorite parameters from measurement/comments/body patterns

Programmable buttons

Measurement for B/M/Doppler

User defined annotation for selected exam category

Body pattern for the selected exam category

Function Available Arrow; Create Macro, Eject, Grab Last, Help, Home, My Trainer, Set Home. Spooler, Text Overlay, Word Delete



Offline Scanning

Normal scanning with battery

Indication/message

Battery capacity

Battery operation

Power assistant in low battery

Probes

Probes

C1-6-D, C2-7-D, 10C-D, C1-5-RS, 8C-RS, E8C-RS, E8CS-RS, BE9CS-RS, 9L-RS, 12L-RS, L8-18i-RS, L6-12-RS, L4-12t-RS, L10-22-RS, L3-9i-RS, ML6-15-RS, 3Sc-RS, 6S-RS, 12S-RS, RAB2-6-RS, RIC5-9A-RS, P6D, P8D, L3-12-RS, IC9-RS, 6Tc-RS, P2D

C1-5-RS Convex Probe

Applications: Abdomen, Vascular, OB/GYN, Urology

Probe band width: 1 - 6 MHz Number of element: 192 Convex radius: 55 mmR

FoV (max): 70°

Physical foot print: 67 x 11.5 mm

B-Mode frequency: 2, 3, 4 MHz

Harmonic frequency: 3, 4, 5 MHz

Doppler frequency: 1.9, 2.1, 2.5, 3.6 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (40432LE)

C1-6-D Convex Probe

Applications: Abdomen, OB, Gynecology, Vascular, Urology

Probe band width: 1 - 6 MHz Number of element: 192 Convex radius: 55 mmR

FoV (max): 70°

Physical foot print: 67.2 x 11.5 mm B-Mode frequency: 2, 3, 4, 5, 6 MHz

Harmonic frequency: 1.5, 2.5, 2.8, 3, 4, 5, 6 MHz Doppler frequency: 1.7, 1.9, 2.1, 2.5, 3.1, 3.6 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H4913BB)

C2-7-D Convex Probe

Applications: Abdomen
Probe band width: 1 - 6 MHz
Number of element: 144
Convex radius: 19.74 mmR

FoV (max): 110°

Physical foot print: 29.7 x 10.5 mm B-Mode frequency: 2.5, 4, 5, 6 MHz Harmonic frequency: 3, 4, 5, 6 MHz

Doppler frequency: 2.1, 2.5, 3.6, 4.2 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H40482LK) or a reusable stainless bracket (H40482LK)

10C-D Convex Probe

Applications: Neonatal, Pediatrics, Vascular



Probe band width: 4 – 12 MHz

Number of element: 128
Convex radius: 10 mmR

FoV (max): 102°

Physical foot print: 17.9 x 4.8 mm B-Mode frequency: 4, 6, 8, 10 MHz Harmonic frequency: 7, 8, 9, 10 MHz

Doppler frequency: 4.2, 5.0, 6.3, 7.4, 8.3 MHz

Biopsy guide: none

8C-RS Micro Convex Probe

Applications: Neonatal, Pediatrics Probe band width: 3 - 11 MHz

Number of element: 128 Convex radius: 10.7 mmR

FoV (max): 132°

Physical foot print: 24.7 x 5 mm

B-Mode imaging frequency: 6.0, 7.0, 8.0 MHz Harmonic frequency: 8.0, 9.0, 10.0 MHz Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz

Biopsy guide: none

E8C-RS Endo Micro Convex Probe

Applications: OB/GYN, Urology, Transvaginal, Transrectal

Probe band width: 3 - 11 MHz Number of element: 128 Convex radius: 10.7 mmR

FoV (max): 132°

Physical foot print: 24.7 x 5 mm

B-Mode frequency: 6, 7, 8 MHz

Harmonic frequency: 8, 9, 10 MHz

Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz

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

(H40412LN)

E8CS-RS Endo Micro Convex Probe

Applications: OB/GYN (Transvaginal), Urology (Transrectal)

Probe band width: 3 - 11 MHz Number of element: 128 Convex radius: 8.7 mmR

FoV (max): 168°

Active area: 25.6 x 4.3 mm

B-Mode frequency: 6, 7, 8 MHz

Harmonic frequency: 7, 8, 9, 10 MHz

Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz

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

(H40412LN)

IC9-RS Endo Micro Convex Probe

Applications: OB/GYN, Urology, (Transvaginal, Transrectal)



Probe band width: 2 - 11 MHz

Number of element: 192 Convex radius: 9.24 mmR

FoV (max): 168°

Physical foot print: 24.2 x 6 mm B-Mode frequency: 6, 7, 8 MHz Harmonic frequency: 7, 8, 9 MHz

Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz

Biopsy guide: single-angle, disposable with a disposable bracket (H48691YW), single-angle, reusable bracket (H48701MN)

BE9CS-RS Biplane Micro Convex Probe

Applications: Urology, Transrectal Probe band width: 3 - 12 MHz Number of element: 96 x 2

Convex radius: 9 mmR

FoV (max): 127°

Active area: 20.8 x 5 mm

B-Mode frequency: 6, 8, 10 MHz Harmonic frequency: 8, 9, 10 MHz

Doppler frequency: 4.2, 5.0, 6.3 MHz

Biopsy guide: single-angle, reuseable (E8387MA), disposable (E8387M), disposable starter kit (H42742LH), disposable starter

kit (H42742LJ)

RAB2-6-RS Convex Volume Probe

Applications: Abdomen, OB/GYN, Urology

Probe band width: 1 - 5 MHz Number of element: 128 Convex radius: 47 mmR

FoV (max): 66°, volume angle: 85° Physical foot print: 53.8 x 13 mm

B-Mode frequency: 3, 4, 5 MHz Harmonic frequency: 4, 5, 6 MHz

Doppler frequency: 1.9, 2.5, 3.1, 3.6 MHz

Biopsy guide: multi-angle, disposal with reusable bracket (H48681ML)

RIC5-9A-RS Convex Volume Probe

Applications: OB/GYN, Urology, Endocavity

Probe band width: 3 - 10 MHz

Number of element: 192

Convex radius: 10.1 mmR

FoV (max): 146°, volume angle: 120°

Active area: 26.5 x 6 mm B-Mode frequency: 5, 7, 9 MHz Harmonic frequency: 7, 8, 9 MHz

Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz

Biopsy guide: single-angle, reusable bracket (H46721R), single-angle, disposable (H48681GF)

ML6-15-RS Matrix Array Linear Probe

Applications: Small Parts, Vascular, Pediatric, Neonatal, Musculoskeletal



Probe band width: 4 - 15 MHz Number of element: >1000

FoV (max): 50.4 mm

Physical foot print: 50.4 x 6 mm

B-Mode frequency: 9, 11, 13, 15 MHz

Harmonic frequency: 8, 10, 12, 15 MHz

Doppler frequency: 5, 6.3, 8.3 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H40432LJ)

12L-RS Linear Probe

Applications: Small Parts, Vascular, Pediatric, Neonatal, Musculoskeletal

Probe band width: 3 - 12 MHz Number of element: 192

FoV (max): 38.4 mm

Physical foot print: 38.4 x 4 mm

B-Mode frequency: 7, 9, 11 MHz

Harmonic frequency: 9, 11, 12 MHz

Doppler frequency: 4.2, 5, 6.3, 8.3 MHz

Biopsy guide: Multi-angle, disposable with a reusable bracket (H40432LC)

9L-RS Linear Probe

Applications: Vascular, Small Parts, Pediatric, Abdomen

Probe band width: 2 - 8 MHz Number of element: 192 FoV (max): 44.2 mm

Physical foot print: 44.2 x 6 mm B-Mode frequency: 5, 7, 9 MHz Harmonic frequency: 8, 9, 10 MHz Doppler frequency: 3.1, 3.6, 4.2, 5 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H4906BK)

L6-12-RS Linear Probe

Applications: Small Parts, Vascular, Pediatric, Neonatal, Abdomen

Probe band width: 5 - 11 MHz Number of element: 128

FoV (max): 38.4 mm

Physical foot print: 38.4 x 4 mm

B-Mode frequency: 7, 9, 11 MHz

Harmonic frequency: 9, 11, 12 MHz

Doppler frequency: 4.2, 5, 6.3, 8.3 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H40432LC)

L8-18i-RS Linear Probe

Applications: Small Parts, Vascular, Pediatric, Neonatal, Intraoperative(Not for China), Musculoskeletal

Probe band width: 4 - 15 MHz Number of element: 168

FoV (max): 25.2 mm

Physical foot print: 25.2 x 4 mm



B-Mode frequency: 8, 9, 12, 15, 18 MHz Harmonic frequency: 9, 15, 18 MHz

Doppler frequency: 5, 6.3, 8.3 MHz

Biopsy guide: none

L4-12t-RS Linear Probe

Applications: Small Parts, Vascular, Pediatric, Neonatal, Musculoskeletal

Probe band width: 3 - 12 MHz Number of element: 192

FoV (max): 38.4 mm
Active area: 38.4 x 4 mm

B-Mode frequency: 7, 9, 11 MHz Harmonic frequency: 9, 11, 12 MHz

Doppler frequency: 4.2, 5, 6.3, 8.3 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H40432LC), multi-angle, disposable with a reusable bracket (H48392LT)

L10-22-RS Linear Probe

Applications: Small Parts, Neonatal, Musculoskeletal

Probe band width: 7 - 20 MHz Number of element: 128 FoV (max): 12.8 mm Active area: 12.8 x 1.5 mm

B-Mode frequency: 10, 12, 16, 20 MHz Harmonic frequency: 16, 19, 22 MHz Doppler frequency: 11.1, 12.5, 14.3 MHz

Biopsy guide: none

L3-9i-RS Linear Probe

Applications: Small Parts, Vascular, Neonatal, Musculoskeletal, Intraoperative (Not for China)

Probe band width: 2 - 9 MHz

Number of element: 192

FoV (max): 38.4 mm

Active area: 38.4 x 4 mm

B-Mode frequency: 5, 7, 9 MHz

Harmonic frequency: 7, 8, 9, 10 MHz

Doppler frequency: 3.6, 4.2, 5 MHz

Biopsy guide: none

L3-12-RS Linear Probe

Applications: Vascular, Small Parts, Neonatal, Pediatrics, Abdomen

Probe band width: 2 - 11 MHz Number of element: 256

FoV (Max): 51.2 mm

Physical foot print: 51.2 x 5 mm

B-Mode frequency: 5.0, 7.0, 9.0, 11.0 MHz Harmonic frequency: 8, 10, 12 MHz

Doppler frequency: 3.6, 4.2, 5, 6.3, 8.3 MHz



Biopsy guide: multi-angle, disposable with a reusable bracket (H48302AA)

3Sc-RS Phased Array Sector Probe

Applications: Cardiac, Transcranial, Abdomen

Probe band width: 1 - 5 MHz Number of element: 64

FoV (max): 120°

Physical foot print: 15 x 14 mm B-Mode frequency: 2, 3, 4 MHz

Harmonic frequency: 3, 3.5, 4.0, 5.0 MHz
Doppler frequency: 1.7, 2.1, 2.5, 3.1, 3.6 MHz

Biopsy guide: multi-angle, reusable bracket (H46222LC)

6S-RS Phased Array Sector Probe

Applications: Cardiac Neonatal, Pediatric

Probe band width: 2 - 8 MHz Number of element: 64

FoV (max): 90°

Physical foot print: 10.2 x 5.5 mm

B-Mode frequency: 4, 5, 6.5, 8 MHz

Harmonic frequency: 4.8, 5.4, 6.2 MHz

Doppler frequency: 2.8, 3.1, 3.6, 4.2, 5.0 MHz

Biopsy guide: none

12S-RS Phased Array Sector Probe

Applications: Pediatric, Neonatal Probe band width: 4 - 12 MHz

Number of element: 96

FoV (max): 90°

Active area: 9.3 x 5.5 mm

B-Mode frequency: 7, 8, 9 MHz

Harmonic frequency: 7, 8, 9 MHz

Doppler frequency: 5.0, 6.3 MHz

Biopsy guide: none

P8D CW Split Crystal Probe

Applications: Cardiac, Vascular

P6D CW Split Crystal Probe

Applications: Cardiac, Vascular
P2D CW Split Crystal Probe

Applications: Cardiac, Vascular

6Tc-RS TEE Sector (Trans-esophageal) Probe

Applications : Cardiac (Transesophageal)
Probe band width: 2 - 8 MHz
Number of element: 64

FoV (Max): 90°

Physical foot print: 14 x 12 mm B-Mode frequency: 6.0, 7.0, 8.0 MHz



Harmonic frequency: 6 MHz

Doppler frequency: 2.8, 3.1, 3.6, 4.2, 5 MHz

Biopsy guide: none

Inputs and Outputs	
HDMI out	
Ethernet network (RJ45)	
External audio out	
USB ports	OPIO Ext USB3.0 x 2 pcs
	• Monitor USB2.0 x 2 pcs
	• Rear USB2.0 x 3 pcs
	·

AC power input

Probe connectors

Regulatory and Standard

Safety Conformance

The LOGIQ P9 is:

- Classified to ANSIAAMI 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 Conforms to the following standards for safety:
- 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 supplied



- 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 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).