

LOGIQ V2 Ultrasound System



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The LOGIQ[™] V2 is a compact designed ultrasound imaging system designed for Abdominal, Obstetrical, Gynecological, Small Parts, Vascular/Peripheral Vascular, Urological, Transcranial and Cardiac applications

General specifications

Dimensions and Weig	ht	Scanning Methods	
Height	• 83mm (3.27in)	Electronic Convex	
Length	• 396mm (15.59in)	Electronic Linear	
Width	• 368mm (14.49in)	Electronic Sector	
Weight	6kg (13.23lb) with battery		
		Transducer Types	
Electrical Power		Convex Array	
Voltage: 100-240 VAC		Linear Array	
Frequency: 50/60 Hz		Sector Phased Array	
Power consumption:			
Maximum of 200 VA w	vith peripherals	Operating Modes	
		B-Mode	
Console Design		Coded Phase Inversion Harmonic Imaging (CHI)	
1 inbuilt active probe ports		M-Mode	
2 nd probe port with optional adapter		Color M Mode	
Integrated SSD (120GB)		Color Flow Mode (CFM)	
Integrated speakers		Power Doppler Imaging (PDI)	
		Directional PDI	
User interfo	ace	PW Doppler with High PRF	
		Anatomical M-Mode (Option)	
Operator Keyboard		CW Doppler Mode (Option)	
Ergonomic full size ke	·	LOGIQ View (Option)	
8 TGC Slider segments (pods)		TVI Mode (Option)	
Monitor		Easy 3D (Free hand 3D) (Option)	

System overview

Brightness adjustment

15" (381mm) high-resolution LCD (1024X768 pixels)

Applications
Abdomen
Obstetrics
Gynecological
Cardiac
Vascular
Transcranial
Musculoskeletal
Urological
Small Parts
Pediatric & Neonatal

General specifications (continued)

System Standard Features	Peripheral Options Supported		
AO (Automatic Optimization)	Digital UP-D25MD Color thermal p	Digital UP-D25MD Color thermal printer	
CrossXBeam™	Digital UP-D898MD BW thermal p	rinter	
SRI-HD (High Definition Speckle Reduction Imaging)	HP office jet 100 Mobile Printer		
Coded Phase Inversion Harmonic Imaging	HP office jet Pro 8100 Printer (supported)		
Virtual Convex	Footswitch MKF 2-MED USB GP26		
Patient information Database	USB Stick 8G		
Image Archive on integrated HDD	1TB mobile USB HDD		
Raw Data Analysis (TruScan)	DVD RW Kit		
Real-time automatic Doppler calculations	Wireless USB adapter		
OB Calculations	LOGIQ V1 / LOGIQ V2 Spare Batte	ry	
Fetal Trending			
Multi-gestational Calculations	Display modes		
Hip Dysplasia Calculations	Live and Stored Display Format	Full size and Split screen – both with thumbnails for still	
Gynecological Calculations		and Cine	
Vascular Calculations	Review Image Format	4x4 and "thumbnails" for still	
Urological Calculations		and Cine	
Renal Calculations	Simultaneous Capability	• B/PW	
Cardiac Calculations		B/CFM or PDI	
Remote capability: InSite ExC		• B/M	
MPEGVue		B/CrossXBeam	
Network Storage		• B + CFM/M	
B-Steer		 Real Time Triplex Mode (B + CFM or PDI/PW or CW) 	
System Options			
Auto-IMT	Selectable alternating Modes	 Dual B (B/B) B/M 	
CW Doppler	Selectable diternating Modes		
Tissue Velocity Imaging (TVI) with Q-Analysis		• B/PW	
DICOM ^{®‡} 3.0 Connectivity		• B + CFM/M	
Needle Recognition		• B + CFM (PDI)/PW (CW)	
Scan Assistant		• 3D-Mode	
Scan Coach		B/CW (Option)	
SonoBiometry		• B + CFM (PDI)/CW	
Easy 3D (Free hand 3D)		Multi-image split screen	
On-board reporting package		(quad screen)	
LOGIQ View		• Live and/or frozen	
Anatomical M-Mode		• B + B/CFM or PDI	
		• PW/M	
		Independent CINE playback	
	Zoom	Write/Read	
	Colorized Image	Colorized B	
		Colorized M	
		COIONZEU IN	

Colorized PW

Colorized CW

General specifications (continued)

Display modes		
Time line display	 Independent Dual B/PW or CW Display 	
	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; 1/4:3/4; TL only) 	
Switchable after Freeze	Timeline only	
	Virtual Convex	
	• CrossXBeam	
	• Tissue Velocity Imaging (TVI) Mode (Option)	

Display annotation Patient Name: First, Last (Max 63 total characters in each field) Patient ID (Max 63 characters) Other ID (Max 63 characters) Age, Sex and Date of Birth Hospital Name Date format: 3 Types selectable • MM/DD/YY • DD/MM/YY • YY/MM/DD Time format: 2 types selectable • 24 hours • 12 hours Gestational Age from • LMP • GA • EDD • BBT Displayed Acoustic Output • TIS: Thermal Index Soft Tissue • TIC: Thermal Index Cranial (Bone) • TIB: Thermal Index Bone • MI: Mechanical Index % of Maximum Power output Probe Name Map Names

Probe Orientation Depth Scale Marker Lateral Scale Marker Focal Zone Markers

Image Depth

Zoom Depth

B-Mode		
Gain		
Dynamic Range		
Imaging Frequency		
Edge Enhance		
Frame Average		
Frame Rate		
Gray Map		
ATO On/Off		
SRI-HD		
CrossXBeam		
M-Mode		
Gain		
Time Scale		
Doppler Mode		
Gain		
Angle		
Sample Volume Depth and V	Width	
Wall Filter		
Velocity and/or Frequency S	Scale	
Spectrum Inversion		
Time Scale		
PRF		
Doppler Frequency		
Color Flow Mode		
Line Density		
Frame Average		
Packet Size		
Color Scale: 2 types	• Power	
	Directional PDI	
Color Velocity Range and Bo	aseline	
Color Threshold Marker		
Color Gain		
PDI		
Inversion		
Doppler Frequency		
TGC Curve		
Cine Gage, Image Number/Frame Number		
Body Pattern: Multiple humo	an	
Application Name		
Measurement Results		
Operator Message		
Biopsy Guide Line and Zone		

Heart Rate

General system parameters

System Setup	Image Storage		
8 Pre-programmable Categories	On-board database of patient information		
User Programmable Preset Capability 248 presets (8 (application groups) x 4 (user defined) + 30 (applications)) x 7 Probes	Storage Formats:	DICOM – compressed/uncompressed, single/multi-frame, with/without Raw Data	
Factory Default Preset Data 120 presets (30 (applications)) x 7 Probes		Display Format: Full Size, 4x4 and	
Languages: English, Latin American Spanish, French, German, Italian, Brazilian Portuguese, Chinese (Simplified), Swedish, Russian, Norwegian, Danish, Dutch, Finnish, Japanese	Storage Devices	"thumbnails" • Internal Hard Drive Partition of 55 GB for Image Storage. At 22KB/	
OB Report Formats including Tokyo University, Osaka University, USA, Europe, and ASUM		image, it can store 2,621,440 still images.	
User Defined Annotations		• External SD card, USB HDD and USB	
Body Patterns		Memory Stick Support for Import,	
Customized Comment Home Position		Export, DICOM Read, SaveAs, and MPEGVue	
System Boot-up Time: 120 seconds		CD-RW storage: 700 MB	
System Shut-down Time: 40 seconds		• DVD storage: -R (4.7 GB)	
BTU (Heat dissipation): Typical Input power during scanning with	Conversion to Formats: JPE	Ŭ	
full configuration: 511 BTU (th) / hr. (1BTU=0.293071W)			
CINE Memory/Image Memory	Live Image and stored image side-by-side Display Compare stored images with current exam		
System RAM: 2GB	Storematrix:	• 800 x600 x24 Bit (Image Only)	
Processor: Intel Celeron 1047 (1.4G x2 core) 128 MB of Cine			
Memory	Reload of archived data se	• 1024 x 768 x24 Bit (Normal Display)	
Max number of Cine loops: 24048 frames (Preset Dependent)	Network Storage support for Import, Export, DICOM Read, SaveAs, MPEGVue		
Selectable Cine Sequence for Cine Review			
Prospective Cine Mark			
Measurements/Calculations and Annotations on Cine Playback	Connectivity & DICOM		
Scrolling timeline memory	Ethernet network connection	on	
Dual Image Cine Display	DICOM 3.0 (Optional)		
Quad Image Cine Display	Verify		
Cine Gauge and Cine Image Number Display	Print		
Cine Review Loop	Store		
Cine Review Speed: 11 steps (11, 13, 14, 17, 22, 25, 31, 48, 100,	Modality Worklist		
200, 400%)	Storage Commitment		
	Modality Performed Procee	dure Step (MPPS)	
	Query/Retrieve		
	Structured Reporting Temp vascular and OB standard	late – which can be compared to	

Remote capability InSite ExC

Scanning Parameters	M-Mode
Digital Agile Beamformer Architecture	Gain: –20 to +20 dB, 1 dB step
193,536 System Processing Channels	Gray Scale Map: MAX 8 types (Preset Dependent)
Max. Frame Rate: 1100 F/s	B Colorization: 9 types
Displayed Imaging Depth: 0 – 33 cm	Scanning Size (FOV or Angle – (Probe dependent), see p
Minimum Depth of Field: 0 – 2 cm (Zoom) (probe dependent)	specifications)
Maximum Depth of Field: 0 – 33 cm (probe dependent)	Rejection: 6 steps
Transmission Focus: 1 – 8 Focal Points selectable (probe and application dependent)	M/PW Display Format: V-1/3B, V-1/2B, V-2/3B, H-1/2B, Timeline only
Quad Beamforming	
Continuous Dynamic Receive Focus/Aperture	Anatomical M-Mode*
Multi-Frequency/Wideband Technology	M-Mode cursor adjustable at any plane
Frequency Range: 1.7 to 13 MHz	Can be activated from a Cine loop from a live or stored
Max Frequency Bandwidth: 13MHz	M and A capability
256 Shades of Gray	Available with Color Flow Mode
261 dB Composite Dynamic Range	Pulse Wave Doppler Mode
Adjustable Dynamic Range (36 - 96dB)	Acoustic Power: 0 – 100%, 2, 5, and 10 steps
Adjustable Field of View (FOV): up to 128 degree (Probe dependent)	Gain: 0 -85 dB, 1 dB step
Image Reverse: Right/Left	Gray Scale Map: Up to 8 types
Image Rotation of 0,° 180°	PRF: 0.3 – 27.9 KHz
	Transmit Frequency: 1.7~6.3MHz, Probe dependent
B-Mode	Wall Filter: 5.5 – 5000Hz, 27 steps, probe dependent
Acoustic Power Output: 0 – 100%, 2, 5, and 10 steps	,, ,, ,, ,,,,

Acoustic Power Output: 0 – 100%, 2, 5, and 10 steps Gain: from 0 – 90 dB, 1 dB steps Adjustable Dynamic Range: 36 – 96 dB, 3 or 6 dB steps Frame Average: 8 steps, preset dependent Gray Scale Map: MAX 8 types (Preset Dependent) Colorize Map / Tint Map: 9 types Frequency: Up to 11 selectable (Probe dependent) Line Density: 5 to 6 Steps Line Density Zoom: 5 steps Thermal Index: TIC, TIS, TIB Image Reverse: On/Off Maximum Focus Number: 8 steps on any probe/application Focus Width: 3 types Suppression: 6 steps Edge Enhance: 7 steps Rejection: 6 steps Steered Linear: ±12°/15° (Probe dependent) Scanning Size (FOV or Angle - probe and application dependent) SRI-HD: Up to 6 Levels selectable CrossXBeam: Up to 7 Angles selectable Depth: 2 - 33 cm, 0.5 / 1 / 2 cm per step (Probe dependent)

probe B, H-1/4B, ed image PW Colorization: Up to 6 types Velocity Scale Range: 0.4 ~ 4084 cm/s Sweep Speed: 0~7, 8 steps Sample Volume Depth: 0.2~30 cm, probe dependent SV Gate: 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 mm Angle Correction: -90 to +90degree, 1 degree steps M/PW Display Format: V-1/3B, V-1/2B, V-2/3B, H-1/2B, H-1/4B, Timeline only Spectrum Inversion Duplex: Simultaneous: On/Off (PW only) PW Angle Steer: (0°, ±10°, ±15°, ±20°) Sample Volume Depth: 75 steps default pre-settable, probe dependent Trace Method: Off, Max, Mean Baseline Shift: 11 steps **Doppler Auto Trace** Compression: 0.5~2.4 9steps (0.5,0.7,0.9,1,1.1,1.4,1.6,2,2.4) Trace Direction: Above, Below, Both Trace Sensitivity: 0~40, 2 steps

Color Flow Mode	Continuous Wave Doppler	*
Baseline Shift 0-100% / 11 steps	Gray Scale Map: 8 types	
Invert: On/Off	Baseline: 11 steps	
'PDI Focus Depth: default pre-settable for 10 – 100% of ROI in Angle Correct: ±90°, 1° step		D
depth, (15% or 20%)	Spectral Color: 6 types	F
CF/PDI Flash Suppression: 5 steps	Invert: On/Off	
CF/PDI Angle Steer: 0, ±10°, ±15°, ±20°	Gain: 0 – 85 dB, 1 dB steps	
Packet Size: 8 – 24, probe and application dependent		7 steps, probe and application
Line Density: 5 steps	dependent	
Line Density Zoom: 5 steps	CW-Mode includes:	Transmit Frequency
Frame Average: 7 steps		CW Colorization
PRF: 0.1 – 18.5 KHz/19 steps		• Velocity Scale Range: 6 ~ 6004cm/s
Min PRF: 0.1 KHz; Max PRF: 18.5KHz		Spectrum Inversion
Velocity Range 2 - 300 cm/s		Trace Method
Spatial Filter: 6 steps		
Gain: 0 – 40 dB, 0.5 dB per step (totally 81 steps)		Doppler Auto Trace
Wall Filter: 0-3 / 4 steps, probe and application dependent		Trace Direction
Scanning Size (FOV or Angle): Probe dependent		Trace Sensitivity
CF/PDI Vertical Size (mm) of ROI: default pre-settable	Coastral Dopplar Made	
CF/PDI Center Depth (mm) of ROI: default pre-settable	Spectral Doppler Mode PRFs: 0.3 – 27.9 KHz	
CF/PDI Frequency: Up to 4, probe dependent		• Min: 1 cm/s
Color Maps, including velocity-variance maps: 14 types Application dependent	Velocity Range (PW)	• Max: 4711 cm/s with 80 ° Angle
Transparent: 5 steps		Correction
Echo/Color Priority: 0 - 100% / 11 steps (Color Threshold)		Max: 1636 cm/s with 60 ° Angle Correction
Accumulation: 8 steps		
Max. Frame Rate 324 fps (3Sc probe)		Max: 818 cm/s with 0 Angle Correction
Max FR in Triplex 307 fps	Velocity Range (CW)	• Min: 6cm/s
Power Doppler Imaging		Max: 6004cm/s with 80 Angle Correction
PDI Map: 14 types		Max: 2120cm/s with 60 Angle
CF/PDI Focus Depth: default pre-settable for 10 – 100% of ROI in Depth, 10% or 15% step		Correction
CF/PDI Acoustic Output: 0 – 100%, 2%, 5% or 10% step		Max: 1060cm/s with 0 Angle Correction
CF/PDI Angle Steer: 0, ±10°, ±15°, ±20°		Correction
Packet Size: 8 – 24, probe and application dependent	Auto Optimization	
Spatial Filter: 6 steps		o improve contrast resolution
Frame Average: 7 steps	Selectable amount of cont	trast resolution improvement (low,
PRF: 0.1 – 18.5 KHz/19 steps	medium, high)	
Power Threshold: 0 – 100%, 10% steps	Auto-Spectral Optimize	• Baseline
Gain: 0 – 40 dB, 0.5 dB steps	adjusts	• Invert
Wall Filter: 4 steps (Probe and application dependent)		• PRF (on live image)
CF/PDI Frequency: Up to 4 steps, probe dependent		Angle correction
Transparent: 5 steps		
Invert: On/Off		
Accumulation: 8 steps		
Flash Suppression		

Coded Harmonic Imaging

Coded Phase Inversion Harmonic Imaging

Available on all Probes

Line Density: 5 steps

Line Density Zoom: 5 steps

Suppression: 6 steps

Edge Enhance: 7 steps

Gray Scale Map: 7 types

Tint Map: 9 types

Gain: 0 – 90 dB, 1 dB step

Dynamic Range: 36 to 96dB, 36~48/78~96 6dB step

Rejection: 6 step

Frequency: Up to 4 steps, probe dependent

LOGIQ View*

Extended Field of View Imaging

For use in B-Mode

CrossXBeam is available on linear probes

Auto detection of scan direction

Post-process zoom

Rotation

Auto fit on monitor

Measurements in B-Mode

Up to 60cm scan length

Easy 3D*

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

Scan Assistant *

Factory Programs

User defined programs

Steps include image annotations, mode transitions, basic imaging controls and measurement initiation

Scan Coach *

Modules showing basic scanning techniques with graphic of beam formation, indicative probe position, schematic of anatomy and example clinical reference image. Covers Obstetrics, Gynecology & Abdomen applications.

SonoBiometry*

SonoBiometry is a workflow tool available on the LOGIQ Vision series that automatically places calipers for fetal biometry measurements, thus helping the user to perform these fetal measurements quickly. This tool can help enhance clinical workflow by reducing keystrokes to perform biometry measurements. Additionally, the user has the option to either accept or edit the measurement suggested by this tool.

Algorithms: Auto measurement of Bi-Parietal Diameter, Head Circumference, Abdominal Circumference & Femur Length

Tissue Velocity Imaging or TVI*

Myocardial Doppler Imaging with color overlay on tissue image

Available on the sector probes

Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information

Q-Analysis: Multiple Time Motion trace display from up to 8 selected points in the myocardium

Virtual Convex

Provides a convex field of view

Compatible with CrossXBeam

Available on linear and Sector transducers

SRI-HD

High Definition 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, 3D

CrossXBeam

Provides 3, 5, 7 of spatial compounding

Live Side by Side DualView Display

Compatible with:

- PW
- SRI-HD

Color Mode

- Coded Harmonic Imaging
- Virtual Convex

Available on 4C-RS, L6-12-RS, E8C-RS 12L-RS**, 8C-RS**, and LK760-RS**.

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

Controls Available While "Li	ive" (continued)	Controls Available on "Freeze" or Recall (continued)	
Wall Filter		Auto Angle Correct	
Spectral Averaging		Overall Gain (loops and stills)	
Sample Volume Gate	• Length	Color Map	
	• Depth	Transparency Map	
Velocity Scale		Frame Average (loops only)	
Color Flow Mode		Flash Suppression	
CFM Gain		CFM Display Threshold	
CFM Velocity Range		Spectral Invert for Color/Doppler	
Acoustic Output		Anatomical M-Mode on Cine loop	
Wall Echo Filter		Magaz urana anto/Calaulationa	
Packet Size		Measurements/Calculations	
Frame Rate Control		General B-Mode	
CFM Spatial Filter		Depth and Distance	
CFM Frame Average		Circumference (Ellipse/Trace)	
Frequency/Velocity Base Li	ne Shift	Area (Ellipse/Trace)	
		Volume (Ellipsoid)	
Controls Available on "Free	ze" or Recall	% Stenosis (Area or Diameter)	
Automatic Optimization		Angle between two lines	
SRI-HD		5	
CrossXBeam – Display non-compounded and compounded image simultaneously in split screen		General M-Mode	
		M-Depth	
3D reconstruction from a stored Cine loop B/M/CrossXBeam Mode		Distance	
Gray Map Optimization		Time	
TGC		Slope	
Colorized B and M		Heart Rate	
Frame Average (loops only)		General Doppler Measurements/Calculations	
Dynamic Range: Anatomica		Velocity	
Sweep Speed		Time	
Gray Map		A/B Ratio (Velocities/Frequency Ratio)	
Post Gain		PS (Peak Systole)	
Baseline shift		ED (End Diastole)	
Sweep Speed		PS/ED (PS/ED Ratio)	
Invert Spectral wave form		ED/PS (ED/PS Ratio)	
Compression		AT (Acceleration Time)	
Rejection		ACCEL (Acceleration)	
Colorized Spectrum		TAMAX (Time Averaged Maximum Velocity)	
Display Format		Volume Flow (TAMEAN and Vessel Area)	
Doppler Audio		Heart Rate	
Angle Correct		PI (Pulsatility Index)	
Quick Angle Correct			

Measurements/Calculations (continued)

(continued)			
Real-time Doppler Auto Measuren	nents/Calculations	OB Measurements/Calculations (c	continued)
PS (Peak Systole)		Calculations and Ratios	• FL/BPD
ED (End Diastole)			• FL/HC
MD (Minimum Diastole)			• CI (Cephalic Index)
PI (Pulsatility Index)			CTAR (Cardio-Thoracic Area
RI (Resistivity Index)			Ratio)
AT (Acceleration Time)		Measurements/Calculations by:	ASUM, ASUM 2001, Berkowitz, Brenner, Campbell, CFEF, Eik- Nes, Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kurtz,
ACC (Acceleration)			
PS/ED (PS/ED Ratio)			
ED/PS (ED/PS Ratio)			
HR (Heart Rate)			Mayden, Mercer, Merz, Moore, Nelson, Osaka University, Paris,
TAMAX (Time Averaged Maximum	Velocity)		Rempen, Robinson, Shepard,
PVAL (Peak Velocity Value)			Shepard/Warsoff, Tokyo University, Tokyo/Shinozuka, Yarkoni
Volume Flow (TAMEAN and Vessel	Area)		
OB Measurements/Calculations		Fetal Graphical Trending	
Gestational Age by:	GS (Gestational Sac)	Growth Percentiles	
	CRL (Crown Rump Length)	Multi-Gestational Calculations (4)	
	FL (Femur Length)	Fetal Qualitative Description (Anatomical survey)	
	l i i i i i i i i i i i i i i i i i i i	Fetal Environmental Description (Biophysical profile)	Biophysical profile)
	 BPD (Biparietal Diameter) AC (Abdominal Circumference) 	Programmable OB Tables	
		Over 20 selectable OB Calculations	
	HC (Head Circumference)	Expanded Worksheets	
	APTD x TTD (Anterior/ Posterior Trunk Diameter by	GYN Measurements/Calculations	
	Transverse Trunk Diameter)	Right Ovary Length, Width, Height	
	• FTA (Fetal Trunk Cross-	Left Ovary Length, Width, Height	
	sectional Area)	Uterus Length, Width, Height	
	• HL (Humerus Length)	Cervix Length, Trace Ovarian Volume	
	• BD (Binocular Distance)	ENDO (Endometrial thickness)	
	• FT (Foot Length)	Ovarian RI	
	OFD (Occipital Frontal Diameter)	Uterine RI Follicular measurements	
	• TAD (Transverse Abdominal Diameter)	Summary Reports	
	• TCD (Transverse Cerebellum Diameter)		
	• THD (Thorax Transverse Diameter)		
 TIB (Tibia Length) ULNA (Ulna Length) 			
Estimated Fetal Weight (EFW) by:	AC, BPD		
Estimated Fetal Weight (EFW) by:			
	• AC, BPD, FL, HC		
	• AC, FL, HC		
	• BPD, APTD, TTD, FL		

Measurements/Calculations

(continued)

Vascular Measurements/Calculations	
SYS DCCA (Systolic Distal Common Carotid Artery)
DIAS DCCA (Diastolic Distal Common Carotid Arte	ry)
SYS MCCA (Systolic Mid Common Carotid Artery)	
DIAS MCCA (Diastolic Mid Common Carotid Artery	()
SYS PCCA (Systolic Proximal Common Carotid Arte	ery)
DIAS PCCA (Diastolic Proximal Common Carotid A	rtery)
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 Arte	ery)
SYS DECA (Systolic Distal External Carotid Artery)	
DIAS DECA (Diastolic Distal External Carotid Arter	y)
SYS PECA (Systolic Proximal External Carotid Arter	ry)
DIAS PECA (Diastolic Proximal External Carotid Ar	tery)
VERT (Systolic Vertebral Velocity)	
SUBCLAV (Systolic Subclavian Velocity)	
Automatic IMT	
Summary Reports	
Urological Calculations	
Disciple a Marken a	

Bladder Volume

Prostate Volume

Lt/Rt 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

Probes

4C-RS			
Convex Probe			
Frequency Range: 2.0-5.0MHz			
Applications: Abdomen, OB/Gyn, Vascular, Urology, MSK			
Number of Element: 128			
Convex Radius: 60 mmR			
FOV: 55°			
Footprint: 18.3 × 66.2 mm			
B-Mode Imaging Frequency: 2.0, 3.0, 4.0, 5.0 MHz			
Harmonic Imaging Frequency: 3.0, 4.0, 5.0 MHz			
CFM/PDI/PWD Frequency: 2.0, 2.8, 3.6 MHz			
Biopsy Guide: Multi Angle, Reusable Bracket			
L6-12-RS			
Linear Probe	• Frequency Range: 4.0 – 13.0 MHz		

- Applications Vascular, Small Parts, Pediatrics, MSK
- Number of Element: 128
- Footprint: 38.4 x 6.0 mm
- B-Mode Imaging Frequency: 6.0, 8.0, 10.0, 11.0 MHz
- Harmonic Imaging Frequency: 8.0, 10.0, 12.0, 13.0 MHz
- Highest Linear Harmonics: 13MHz
- CFM/PDI/PWD Frequency: 4.0, 5.0, 6.0 MHz
- Steered Angle : -20° /+ 20°, -15° /+ 15°, -10° /+ 10° □preset dependent
- Steering steps:
- 23 steps, in Fine Angle Steer (-20° to +20°, in 1 or 2 degree steps)
- Max Steering Angle: +- 20 degrees in Fine Angle Steer
- Biopsy Guide: Multi Angle, Reusable Bracket

Probes (continued)

E8C-RS		8C-RS**	
Endo Micro Convex Probe	• Frequency Range: 4.2 – 10.0MHz	Convex Probe	• Frequency Range: 4.2 – 10.0 MHz
	• Applications: OB/Gyn, Urology, Transvaginal		Applications: Pediatric cardiac, MSK
Transrectal	Number of Element: 128		• Number of Element: 128
	• Convex Radius: 10.73 mmR		• Convex Radius: 10.73 mmR
	• FOV: 128°		• FOV: 128°
	• Footprint: 16.9 x 21.2 mm		• Footprint: 12.0 × 22.0 mm
	B-Mode Imaging Frequency: 6.0, 8.0, 10.0 MHz		B-Mode Imaging Frequency 6.0 8.0 10.0 MHz
	Harmonic Imaging Frequency: 7.0, 8.0, 10.0 MHz		Harmonic Imaging Frequency:
	CFM/PDI/PWD Frequency:		7.0 8.0 10.0 MHz
	4.2, 5.0, 6.3 MHz		CFM/PDI/PWD Frequency: 4. 5.0 6.3 MHz
	Biopsy Guide: Fixed Angle,Disposable, or Reusable		1
	Bracket	12L-RS** Linear Probe	• Frequency Range:4.2- 13.0
3Sc-RS Phased Array Sector Probe	• Frequency Range: 1.7 – 4.0		MHz Applications: Vascular, Smal Parts, Pediatrics, MSK
	MHz		Number of Element: 192
	Applications: Cardiac, Transcranial, Abdomen,		Footprint: 12.7 x 47.1mm
	Vascular		B-Mode Imaging Frequency
	• Number of Element: 64		6.0, 8.0, 10.0, 12.0 MHz
	• FOV: 120°		Harmonic Imaging
	• Footprint: 27.6 x 19.3 mm		Frequency: 8.0, 10.0, 12.0, 13.0 MHz
	B-Mode Imaging Frequency: 2.0, 3.0, 4.0 MHz		Highest Linear Harmonics: 13MHz
	Harmonic Imaging Frequency: 3.0, 3.2, 3.5, 4.0 MHz		• CFM/PDI/PWD Frequency:4. 6.3 7.7 MHz
	• CFM/PDI/PWD Frequency: 1.7, 2.0, 2.5, 3.3 MHz		 Steered Angle : -20° /+ 20°, -15° /+ 15°, -10° /+ 10° Dpreset dependent
	• CWD Frequency: 1.9 MHz		Steering steps:
	• Biopsy Guide: Multi Angle, Reusable Bracket		 23 steps, in Fine Angle Steer (-20° to +20°, in 1 or 2 degree steps)
			Max Steering Angle: +- 20 degrees in Fine Angle Steer

• Biopsy Guide: Multi Angle, Reusable Bracket

Probes (continued)

LK760-RS**		
Linear Probe	• Frequency Range: 5.0-10.0 MHz	
	• Applications: Small Parts	
	Number of Element: 128	
	• Footprint: 38.4 x 6.0 mm	
	B-Mode Imaging Frequency: 5.0 7.0 9.0 MHz	
	Harmonic Imaging Frequency: 6.0 8.0 10.0 MHz	
	. Utals act the and there are inc.	

Highest Linear Harmonics: 10.0 MHz

Inputs and Outputs

HDMI output

VGA output with optional adapter

TV output (S-video and composite video)

100BASE-TX Ethernet (RJ45)

2 USB ports

LOGIQ V1/V2 Cart (Optional)

The ergonomic trolley cart for LOGIQ V1/V2 features 4 easy on-off lockable 120mm (4.72 in) diameter wheels, system mounting, power cord hooks and clips for neat arrangement of power cords, probe holders with cord management holder, and gel holder.

Cart Dimension

L 538 x D 496 x H 874 mm (L 21.18 x D 19.53 x H 34.41 in)

Weight: 21Kg (46.30 lbs)

LOGIQ V1/V2 Printer Shelf (Optional)

Dimensions: L 293 x D 217 x H 122 mm (L 11.54 x D 8.54 x H 4.80 in)

LOGIQ V1/V2 Cart Tray (Optional)

The cart tray offers easy storage up to a 1 Kg load. Dimensions: L 305mm X D 222mm X H 77mm (L 12.01 x D 8.74 x H 3.03 in)

LOGIQ V1/V2 Cart Holder (Optional)

Cart attachment where 2 probe port adapter is docked onto system. This attachment features 2 probe holders with cord management hooks and 1 gel holder.

LOGIQ V1/V2 Cart Dimensions with Additional Options

Dimensions: L 608 x D 496x H 874mm (L 23.94 x D 19.53 x H 34.41 in)

Weight : 23Kg (50.71 lbs)

LOGIQ V1/V2 Trolley Case (Optional)

Trolley case for LOGIQ V1/V2 for easy transportation featuring softcover packaging and 2 wheel trolley design. The case features 3 protective compartments for the LOGIQ V1/V2 probes, and 2 probe port adapter, 3 additional compartments for power adapters, cord, and manuals.

Dimensions: L 495 x D 275 x H 460 mm (L 19.49 x D 10.83 x H 18.11 in)

Weight: 4Kg (8.82 lbs)

Safety Conformance

The LOGIQ V2 is:

CE Marked to Council Directive 93/42/EEC on Medical Devices Conforms to the following standards for safety:

- IEC 60601-1 Medical electrical equipment—Part 1: General requirements for safety
- IEC 60601-1-2 Medial electrical equipment—Part 1-2 General requirements for safety—Collateral Standard:
- Electromagnetic compatibility requirements and tests EMC Emissions Grp-1
- Class A device requirements as per CISPR 11
- IEC 60601-2-37 Medical electrical equipment—Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment
- ISO 10993-1 Biological evaluation of medical devices—Part 1 Evaluation and testing
- EN 62366 Medical devices

 Application of usability engineering to medical devices



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Imagination at work

Data subject to change

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