

#### **LOGIQ Fortis R3.x HDU**

#### **Product Specification Sheet**

Last updated on: Thursday, January 13, 2022

1	General Specifications		
_	Dimensions and Weight		
2	(Dimensions given with floating keyboard stowed and display tilted for transport)		
3	Depth	885 mm, 34.8"	
4	Height	1250 – 1800 mm, 49 – 71"	
5	Weight	85 kg (187.4 lb)	
5	veignt	530 mm, 20.9" (Caster),	
6	Width	565 mm, 22.2" (Monitor)	
7	Electrical Power	303 mm, 22.2 (Piomtor)	
8	Voltage: 100 – 240 Vac		
9	Frequency: 50/60 Hz		
10	Power consumption maximum of 0.9 kVA with peripherals		
11	Console Design		
12	4 active probe ports		
13	1 inactive probe storage port		
14	Integrated SSD (1 TB)		
15	Integrated DVD-R Multi Drive		
16	On-board storage of thermal printer		
17	Integrated speaker		
18	Integrated locking mechanism that provides rolling lock and caster swivel lock		
19	Integrated cable management		
20	Front and rear handles		
21	Easily removable air filters		
22	Windows 10 64-bit		
23	User Interface		
24	Operator Keyboard		
25	Operating keyboard adjustable in height and rotation		
26	Ergonomic hard key layout		
27	Interactive back-lighting		
28	Integrated recording keys for remote control of up to 4 peripheral devices or DICOM	® devices	
29	Integrated gel warmer		
30	Touch Screen		
31	12.1" High-resolution, color, touch, display screen		
32	Interactive dynamic software menu		
33	Brightness adjustment		
34	User-configurable layout		
35	Monitor		
36	23.8" Wide screen high-resolution HDU display		
37	Display translation (independent of console)		
38	350 mm, (13.7 in) horizontal (both directions)		
39	150 mm, (5.9 in) vertical		
40	90° swivel (both directions)		
41	Fold-down and lock mechanism for transportation		
42	Resolution: 1920 X 1080		
43	Anti-glare		
44 45	Viewing angle 89/89/899° Contrast Ratio: >20,000:1		
46	System Overview		
46	Applications		
47	Abdominal		
48	Obstetrical		
50	Gynecological		
51	Breast		
21	5.000		

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	Small Parts
53	Peripheral Vascular Transport in (a dult and a sanata)
54	Transcranial (adult and neonatal)
55	Pediatric and neonatal
56	Musculoskeletal (general and superficial)
57	Urological Continue (adults and and interior)
58	Cardiac (adult and pediatric) Interventional
59	
60	Pleural Pleural
61	Operating Modes
62	B-Mode M-Mode
63	
64	Color Flow Mode (CFM)
65 66	B-Flow (Option)  Extended Field of View (LOGIQView)
67	Power Doppler Imaging (PDI)
68	PW Doppler
69	CW Doppler (Option)
09	Volume Modes (3D/4D)
70	(Option)
71	Anatomical M-Mode
72	Coded Contrast Imaging (Option)
73	Strain elastography (Option)
74	B Steer+ (Option)
	Shear wave elastography (Option)
76	UGAP (Option) - Ultrasound Guided Attenuation Parameter Imaging
	Scanning Methods
78	Electronic sector
79	Electronic convex
80	Electronic linear Electronic linear
81	Mechanical volume sweep
	Probe Types
83	Sector phased array
84	Convex array
85	Microconvex array
86	Linear array Matrix array
87	Matrix array Volume probes (4D)
88 89	Split crystal
	System Standard Features
90 91	Advanced user interface with high-resolution 12.1" display touch panel
	Automatic optimization
93	CrossXBeam™ compounding
94	Speckle Reduction Imaging (SRI-HD, Advanced SRI Type 1)
95	Fine angle steer
96	Coded harmonic imaging
97	Virtual convex
98	Patient information database
99	Image archive on integrated CD/DVD and hard drive
100	Advanced 3D
101	Raw data analysis
102	Real-time automatic Doppler calculations
103	OB calculations
	Fetal trending
	Multi gestational calculations
106	Hip dysplasia calculations
	Gynecological calculations
108	Vascular calculations
109	Urological calculations
110	Renal calculations
111	Cardiac calculations
	InSite™ capability
113	On-board electronic documentation

115   ClOGIQView		
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Network printer support		
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164 Review image format   • 4x4, and thumbnails.  For still and CINE		
• Independent Dual B or CrossXBeam/PW Display		
165 Time line display		
Display formats top/bottom selectable format		
• Side/side selectable format		
166 Virtual convex		
167 Simultaneous capability		
168 B or CrossXBeam/PW		
169 B or CrossXBeam/CW (Option)		
170 B or CrossXBeam/CFM or PDI		
171 B/M		
172 B/CrossXBeam		
173 B-Flow/PW		

134   Real from Employment   Real from PDIPPW				
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178   Work Organical				
Multi-inage Capits/cust Screen				
180   Bor CrossOblean/CFM or PDI or B-How (Option)				
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Nospital name   MeM/DD/YY   DO/MM/YW   DO/MM/YM   DO   DO   DO   DO   DO   DO   DO   D				
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1910   Date format: three types selectable   DD/MM/VP   PV/MM/DD     1911   Time format:	189	Hospital name		
Section   Sect			• MM/DD/YY	
Time format:   24 hours   12 ho	190	Date format: three types selectable	• DD/MM/YY	
Time format:   24 hours   12 ho			• YY/MM/DD	
121 bours		Time format:	• 24 hours	
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198				
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201 B-Mode - Gain - Dynamic range - Imaging frequency - Frame averaging - Gray map - SRI  202 M-Mode - Gain - Dynamic range - Imaging frequency - Frame averaging - Gray map - SRI  203 Doppler Mode - Gain - Dynamic range - Time scale - Gain - Angle - Sample volume depth and width - Wall filter - Velocity and/or frequency scale - Spectrum inversion - Time scale - Spectrum inversion - Time scale - PRF - Doppler frequency - Line density - Frame averaging - Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging - Color velocity range and baseline - Color gain - PDI - Spectrum inversion - Doppler frequency	198			
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Frame averaging   Gray map   + SRI	199	Image depth	Dynamic range	
SRI	199 200	Image depth Zoom depth	Dynamic range     Imaging frequency	
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### Purple of Part of	199 200	Image depth Zoom depth	<ul><li>Dynamic range</li><li>Imaging frequency</li><li>Frame averaging</li></ul>	
### Color Flow Doppler Mode    Time scale	199 200	Image depth Zoom depth	<ul><li>Dynamic range</li><li>Imaging frequency</li><li>Frame averaging</li><li>Gray map</li></ul>	
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- Angle - Sample volume depth and width - Wall filter - Velocity and/or frequency scale - Spectrum inversion - Time scale - PRF - Doppler frequency - Line density - Frame averaging - Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging - Color velocity range and baseline - Color threshold marker - Color gain - PDI - Spectrum inversion - Doppler frequency	199 200 201	Image depth Zoom depth B-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> </ul>	
- Sample volume depth and width - Wall filter - Velocity and/or frequency scale - Spectrum inversion - Time scale - PRF - Doppler frequency - Line density - Frame averaging - Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging - Color velocity range and baseline - Color threshold marker - Color gain - PDI - Spectrum inversion - Doppler frequency - Doppler frequency	199 200 201	Image depth Zoom depth B-Mode	Dynamic range     Imaging frequency     Frame averaging     Gray map     SRI      Gain     Dynamic range	
- Sample volume depth and width - Wall filter - Velocity and/or frequency scale - Spectrum inversion - Time scale - PRF - Doppler frequency - Line density - Frame averaging - Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging - Color velocity range and baseline - Color threshold marker - Color gain - PDI - Spectrum inversion - Doppler frequency - Doppler frequency	199 200 201	Image depth Zoom depth B-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> </ul>	
- Wall filter - Velocity and/or frequency scale - Spectrum inversion - Time scale - PRF - Doppler frequency - Line density - Frame averaging - Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging - Color velocity range and baseline - Color threshold marker - Color gain - PDI - Spectrum inversion - Doppler frequency - Doppler frequency - Doppler frequency - Doppler frequency	199 200 201	Image depth Zoom depth B-Mode	Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain	
Doppler Mode  Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency  Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color threshold marker Color threshold marker Color gain PDI Spectrum inversion Doppler frequency  Digital TGC with 8 independent controls	199 200 201	Image depth Zoom depth B-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> </ul>	
Spectrum inversion  Time scale  PRF  Doppler frequency  Line density  Frame averaging  Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging  Color velocity range and baseline  Color threshold marker  Color gain  PDI  Spectrum inversion  Doppler frequency	199 200 201	Image depth Zoom depth B-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> </ul>	
- Time scale - PRF - Doppler frequency - Line density - Frame averaging - Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging - Color velocity range and baseline - Color threshold marker - Color gain - PDI - Spectrum inversion - Doppler frequency	200 201 202	Image depth Zoom depth  B-Mode  M-Mode	Dynamic range     Imaging frequency     Frame averaging     Gray map     SRI     Gain     Dynamic range     Time scale     Gain     Angle     Sample volume depth and width     Wall filter	
PRF Doppler frequency Line density Frame averaging Color Flow Doppler Mode  Doppler Frequency  Digital TGC with 8 independent controls	200 201 202	Image depth Zoom depth  B-Mode  M-Mode	Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale	
- Doppler frequency - Line density - Frame averaging - Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging - Color velocity range and baseline - Color threshold marker - Color gain - PDI - Spectrum inversion - Doppler frequency  Digital TGC with 8 independent controls	200 201 202	Image depth Zoom depth  B-Mode  M-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> </ul>	
- Line density - Frame averaging - Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging - Color velocity range and baseline - Color threshold marker - Color gain - PDI - Spectrum inversion - Doppler frequency  Digital TGC with 8 independent controls	200 201 202	Image depth Zoom depth  B-Mode  M-Mode	Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale	
- Frame averaging - Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging - Color velocity range and baseline - Color threshold marker - Color gain - PDI - Spectrum inversion - Doppler frequency	200 201 202	Image depth Zoom depth  B-Mode  M-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> </ul>	
Color Flow Doppler Mode  Color threshold marker  Color gain  PDI  Spectrum inversion  Doppler frequency  Digital TGC with 8 independent controls	200 201 202	Image depth Zoom depth  B-Mode  M-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> </ul>	
imaging  Color Flow Doppler Mode  Color Flow Doppler Mode  Color threshold marker  Color gain  PDI  Spectrum inversion  Doppler frequency	200 201 202	Image depth Zoom depth  B-Mode  M-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> </ul>	
Color Flow Doppler Mode  • Color velocity range and baseline • Color threshold marker • Color gain • PDI • Spectrum inversion • Doppler frequency  205 Digital TGC with 8 independent controls	200 201 202	Image depth Zoom depth  B-Mode  M-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> </ul>	
Color Flow Doppler Mode	200 201 202	Image depth Zoom depth  B-Mode  M-Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> <li>Color scale, 3 types: Power, directional PDI and symmetrical velocity</li> </ul>	
Color gain     PDI     Spectrum inversion     Doppler frequency  205 Digital TGC with 8 independent controls	200 201 202	Image depth Zoom depth  B-Mode  M-Mode  Doppler Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> <li>Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging</li> </ul>	
PDI     Spectrum inversion     Doppler frequency  205 Digital TGC with 8 independent controls	200 201 202 203	Image depth Zoom depth  B-Mode  M-Mode  Doppler Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> <li>Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging</li> <li>Color velocity range and baseline</li> </ul>	
Spectrum inversion     Doppler frequency  205 Digital TGC with 8 independent controls	200 201 202 203	Image depth Zoom depth  B-Mode  M-Mode  Doppler Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> <li>Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging</li> <li>Color velocity range and baseline</li> <li>Color threshold marker</li> </ul>	
Doppler frequency     Digital TGC with 8 independent controls	200 201 202 203	Image depth Zoom depth  B-Mode  M-Mode  Doppler Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> <li>Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging</li> <li>Color velocity range and baseline</li> <li>Color threshold marker</li> <li>Color gain</li> </ul>	
205 Digital TGC with 8 independent controls	200 201 202 203	Image depth Zoom depth  B-Mode  M-Mode  Doppler Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> <li>Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging</li> <li>Color velocity range and baseline</li> <li>Color threshold marker</li> <li>Color gain</li> <li>PDI</li> </ul>	
	200 201 202 203	Image depth Zoom depth  B-Mode  M-Mode  Doppler Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> <li>Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging</li> <li>Color velocity range and baseline</li> <li>Color gain</li> <li>PDI</li> <li>Spectrum inversion</li> </ul>	
ZUb Acoustic Hame rate	200 201 202 203	Image depth Zoom depth  B-Mode  M-Mode  Doppler Mode  Color Flow Doppler Mode	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> <li>Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging</li> <li>Color velocity range and baseline</li> <li>Color gain</li> <li>PDI</li> <li>Spectrum inversion</li> </ul>	
	201 202 203 204	Image depth Zoom depth  B-Mode  M-Mode  Doppler Mode  Color Flow Doppler Mode  Digital TGC with 8 independent controls	<ul> <li>Dynamic range</li> <li>Imaging frequency</li> <li>Frame averaging</li> <li>Gray map</li> <li>SRI</li> <li>Gain</li> <li>Dynamic range</li> <li>Time scale</li> <li>Gain</li> <li>Angle</li> <li>Sample volume depth and width</li> <li>Wall filter</li> <li>Velocity and/or frequency scale</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>PRF</li> <li>Doppler frequency</li> <li>Line density</li> <li>Frame averaging</li> <li>Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging</li> <li>Color velocity range and baseline</li> <li>Color gain</li> <li>PDI</li> <li>Spectrum inversion</li> </ul>	

207	CINE gage, image number/frame number	
208	Body pattern: multiple human and animal types	
209	Application name	
210	Measurement results	
211	Operator message	
212	Displayed acoustic output	<ul> <li>TIS: Thermal Index Soft Tissue</li> <li>TIC: Thermal Index Cranial (Bone)</li> <li>TIB: Thermal Index Bone</li> <li>MI: Mechanical Index</li> </ul>
213	% of maximum power output	
214	Biopsy guide line and zone	
215	Heart rate	

217 System Setup 218 Pre-programmable categories 219 User programmable preset capability 220 Factory default preset data 221 Languages: English, French, German, Spanish, Italian, Brazilian, 222 Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian 223 OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO 224 Body patterns 225 Customized comment home position 226 EZ Imaging: Simplified user interface for high volume workflow 227 Complete user manual available on board through Help (F1) 228 User manual and service manual available on board through Help (F1) 229 CINE Memory/Image Memory 230 1 GB of CINE memory 231 Selectable CINE sequence for CINE review 232 Prospective CINE mark 233 Measurements/calculations and annotations on CINE playback 234 Scrolling timeline memory 235 Dual Image CINE display 236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review speed 240 Image Storage 241 On-board database of patient information from past exams  - Compressed/uncompressed 242 Storage formats: DICOM  - Storage formats: DICOM  - Compressed/uncompressed - Single/multi-frame - Enhanced (3D/4D)		
218 Pre-programmable categories 219 User programmable preset capability 220 Factory default preset data 221 Languages: English, French, German, Spanish, Italian, Brazilian, 222 Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian 223 OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO 223 User defined annotations 224 Body patterns 225 Customized comment home position 226 EZ Imaging: Simplified user interface for high volume workflow 227 Complete user manual available on board through Help (F1) 228 User manual and service manual are included in USB stick with each system. A printed manual is available upon request. 229 CINE Memory/Image Memory 230 1 GB of CINE memory 231 Selectable CINE sequence for CINE review 232 Prospective CINE mark 233 Measurements/calculations and annotations on CINE playback 234 Scrolling timeline memory 235 Dual Image CINE display 236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 240 On-board database of patient information from past exams  * Compressed/uncompressed * Single/multi-frame*		
219 User programmable preset capability 220 Factory default preset data 221 Languages: English, French, German, Spanish, Italian, Brazilian, 222 Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian 223 OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO 223 User defined annotations 224 Body patterns 225 Customized comment home position 226 EZ Imaging: Simplified user interface for high volume workflow 227 Complete user manual available on board through Help (F1) 228 User manual and service manual are included in USB stick with each system. A printed manual is available upon request. 229 CINE Memory/Image Memory 230 1 GB of CINE memory 231 Selectable CINE sequence for CINE review 232 Prospective CINE mark 233 Measurements/calculations and annotations on CINE playback 234 Scrolling timeline memory 235 Dual Image CINE display 236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 240 On-board database of patient information from past exams  **Compressed/uncompressed** - Storage formats: DICOM**		
Factory default preset data Languages: English, French, German, Spanish, Italian, Brazilian, Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian  OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO  User defined annotations  224 Body patterns  Customized comment home position  EZ Imaging: Simplified user interface for high volume workflow  227 Complete user manual available on board through Help (F1)  User manual and service manual are included in USB stick with each system. A printed manual is available upon request.  CINE Memory/Image Memory  1 GB of CINE memory  31 Selectable CINE sequence for CINE review  Prospective CINE mark  328 Measurements/calculations and annotations on CINE playback  329 Scrolling timeline memory  Dual Image CINE display  330 Quad Image CINE display  331 CINE gauge and CINE image number display  CINE gauge and CINE image number display  CINE review loop  CINE review loop  CINE review speed  Image Storage  On-board database of patient information from past exams   Compressed/uncompressed  Single/multi-frame		
Languages: English, French, German, Spanish, Italian, Brazilian, Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian  OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO  User defined annotations  Body patterns  Customized comment home position  EZ Imaging: Simplified user interface for high volume workflow  Complete user manual available on board through Help (F1)  User manual and service manual are included in USB stick with each system. A printed manual is available upon request.  CINE Memory/Image Memory  1 GB of CINE memory  31 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 loop  CINE review speed  Image Storage  On-board database of patient information from past exams  **Compressed/uncompressed*  Storage formats: DICOM  **Compressed/uncompressed*  Storage formats: DICOM  **Storage formats: DICOM  **Storage formats: DICOM  **Storage formats: DICOM  **Storage formats: DICOM  **Compressed/uncompressed*  **Single/multi-frame		
Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian  OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO  User defined annotations  User defined annotations  EZH Body patterns  Customized comment home position  EZ Imaging: Simplified user interface for high volume workflow  Complete user manual available on board through Help (F1)  User manual and service manual are included in USB stick with each system. A printed manual is available upon request.  CINE Memory/Image Memory  IGB of CINE memory  Selectable CINE sequence for CINE review  Prospective CINE mark  Selectable CINE sequence for CINE review  Selectable CINE display  Quad Image CINE display  Quad Image CINE display  CINE gauge and CINE image number 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  *Compressed/uncompressed*  Storage formats: DICOM  *Storage formats: DICOM  *Storage formats: DICOM  *Single/multi-frame		
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User defined annotations		
Body patterns  Customized comment home position  EZ Imaging: Simplified user interface for high volume workflow  Complete user manual available on board through Help (F1)  User manual and service manual are included in USB stick with each system. A printed manual is available upon request.  CINE Memory/Image Memory  1 GB 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 loop  CINE review speed  Image Storage  On-board database of patient information from past exams  Compressed/uncompressed  Storage formats: DICOM  **Compressed/uncompressed**  Storage formats: DICOM  **Compressed/uncompressed**  Storage formats: DICOM		
Customized comment home position  226 EZ Imaging: Simplified user interface for high volume workflow  227 Complete user manual available on board through Help (F1)  228 User manual and service manual are included in USB stick with each system. A printed manual is available upon request.  229 CINE Memory/Image Memory  230 1 GB of CINE memory  231 Selectable CINE sequence for CINE review  232 Prospective CINE mark  233 Measurements/calculations and annotations on CINE playback  234 Scrolling timeline memory  235 Dual Image CINE display  236 Quad Image CINE display  237 CINE gauge and CINE image number display  238 CINE review loop  239 CINE review speed  240 Image Storage  241 On-board database of patient information from past exams  Compressed/uncompressed  Single/multi-frame		
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229 CINE Memory/Image Memory 230 1 GB of CINE memory 231 Selectable CINE sequence for CINE review 232 Prospective CINE mark 233 Measurements/calculations and annotations on CINE playback 234 Scrolling timeline memory 235 Dual Image CINE display 236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 241 On-board database of patient information from past exams  Compressed/uncompressed  Storage formats: DICOM  Selectable CINE review  CINE mark  Compressed/uncompressed  Storage formats: DICOM		
230		
231 Selectable CINE sequence for CINE review 232 Prospective CINE mark 233 Measurements/calculations and annotations on CINE playback 234 Scrolling timeline memory 235 Dual Image CINE display 236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 241 On-board database of patient information from past exams  - Compressed/uncompressed - Single/multi-frame		
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234 Scrolling timeline memory 235 Dual Image CINE display 236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 241 On-board database of patient information from past exams  - Compressed/uncompressed - Single/multi-frame		
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236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 241 On-board database of patient information from past exams  - Compressed/uncompressed - Single/multi-frame		
236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 241 On-board database of patient information from past exams  - Compressed/uncompressed - Single/multi-frame		
237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 241 On-board database of patient information from past exams  - Compressed/uncompressed - Single/multi-frame		
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241 On-board database of patient information from past exams  • Compressed/uncompressed • Single/multi-frame		
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242 Storage formats: DICOM  • Single/multi-frame		
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- With/without raw data  243 Export JPEG, JPEG 2000, WMV (MPEG 4) formats		
• USB memory stick: 64 MB to 64 GB		
(for exporting individual images/clips)		
244 Storage devices: • CD-R storage: 700 MB		
• DVD storage: -R (4.7 GB)		
• Hard drive image storage: ~830GB		
245 Compare previous exam images with current exam		
246 Reload of archived date sets		
247 Network storage support for import, export, DICOM read, SaveAs, MPEGVue		
248 Connectivity		
249 Ethernet network connection		
250 Wireless LAN 802.11ac/a/b/g/n (Option)		
• Verify		
• Print		
• Store		
Modality worklist		
251 DICOM 3.0 • Storage commitment		
• Modality performed procedure step (MPPS)		
Media exchange  Off a thread large state of the stat		
Off network/mobile storage queue		
• Query/retrieve		
252 Public SR template		
253 Structured Reporting – compatible with vascular and OB, cardiac and breast standard		
254 InSite capability	InSite capability	
255 Advanced privacy and security (Option)		

256	Physiological input panel (Option)	
		• ECG, 1 channel
		• PCG, 1 channel
		• AUX, 1 channel
		Dual R-Trigger
		Pre-settable ECG R delay time
257	Physiological input	Pre-settable ECG position
231	Friysiological iliput	
		Adjustable ECG gain control
		Pre-settable PCG position
		Adjustable PCG gain control
		Pre-settable AUX position
		Adjustable AUX gain control
258	Automatic heart rate display	
259	Auto Ejection Fraction	
260	Report writer (Option)	
261	On-board reporting package automates report writing	
262	Formats various exam results into a report suitable for printing or reviewing on a s	candard PC
263	Exam results include patient info, exam info, measurements, calculations, images,	
203	and comments Standard templates provided	
264	Customizable templates	
265	Scanning Parameters	
266	cSound™ Imageformer: Infinite number of effective channels	
267	Frame rate: 9,675 Hz maximum	
268	Displayed imaging depth: 0 – 100 cm	
269	Minimum depth of field: 0 – 2 cm (zoom) (probe dependent)	
	Maximum depth of field: 0 – 200 cm (probe dependent)	
270		
271	Continuous dynamic receive focus	
272	Continuous dynamic receive aperture	
273	Adjustable dynamic range, inifinite upper level	
274	Adjustable field of view (FOV)	
275	System Frequency Range: 0.7-24 MHz	
276	Image reverse: right/left	
277	Image rotation of 0°, 90°, 180°, 270°	
278	8 bits stored per color	
279	256 shades of gray	
280	256 color tones	
281	Digital B-Mode	
		Acoustic power
		• Gain
		Dynamic range
		Frame averaging
		Gray scale map
		• Frequency
		<ul> <li>Speed of sound (application dependent)</li> </ul>
282	Adjustable	Framerate
		Scanning size (FOV or Angle)
		– Depending on the probe, see probe specifications
		• CrossXBeam
		B colorization
		• Reject
		• Suppression
		• SRI
283	Digital M-Mode	
		Acoustic power
		• Gain
		Dynamic range
		Gray scale map
284	Adjustable	• Frequency
		• Sweep speed
		M colorization
I		• M display format
		- m display lumat
		Paiaction
205	Anatomical M. Modo	Rejection
285 286	Anatomical M-Mode M-mode cursor adjustable at any plane	Rejection

287	Can be activated from a CINE loop from a live or stored image		
288	M & A capability		
289	Available with Color Flow Mode		
290	Digital Spectral Doppler Mode		
291	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	
292	Digital Color Flow Mode	Trace sensitivity	
292	Digital Color Flow Mode	Acoustic power	
293	Adjustable	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 Auto ROI placement and steering on linear Accumulation mode Flash suppression Shortcuts	
294	Digital Power Doppler Imaging		
295	Adjustable  Continuous Wave Doppler (Option)	<ul> <li>Acoustic power</li> <li>Color maps, velocity-variance maps</li> <li>Gain including</li> <li>Velocity scale range</li> <li>Wall filter</li> <li>Packet size</li> <li>Line density</li> <li>Spatial filter</li> <li>Steering angle</li> <li>Frame average</li> <li>Threshold</li> <li>Accumulation mode</li> <li>Flash suppression</li> <li>Shortcuts</li> </ul>	
296 297	Available on M5Sc-D, 6S-D, 6Tc-RS, P2D and P6D probes		
297	Steerable CW mode included		
<b>298</b>	Steerable Cw mode included		

		Acoustic power
		• Gain
		Dynamic range
		• Gray scale map
		Transmit frequency
		· · ·
		• Wall filter
		CW colorization
		Velocity scale range
299	Adjustable	Sweep speed
		Angle correction
		Spectrum inversion
		Trace method
		Baseline shift
		Doppler auto trace
		• Compression
		• Trace direction
		Trace direction     Trace sensitivity
700	Automotic Outimication	• Frace Sensitivity
300	Automatic Optimization	
301	Optimize B-Mode image to help improve contrast resolution with one button press	
302	Selectable amount of contrast resolution improvement (low, medium, high)	
303	CTO (Continuous Tissue Optimization) – continuously adjusts B-Mode axial and later	al gain uniformity and overall gain level suppressing the noise
304	Auto-spectral optimize – adjusts baseline, invert, PRF (on live image), and angle corre	ection with one button press
305	Auto CF and PW positioning – adjusts ROI position, sample volume position and stee	
306	Coded Harmonic Imaging	mig war one section press
307	Available on all 2D and 4D probes	
308		
306	B-Flow (Option)	
309	Available on the following probes: C1-6-D, C1-6VN-D, C2-7-D, C2-7VN-D, C2-9-D, C2-9VN-D, C3-10-D, L2-9-D, L2-9VN-D, L3-12-D, L6-24-D ML6-15-D, M5Sc-D, L8-18i-D	
310	Background	
311	Sensitivity/PRI	
312	Acoustic power	
313	Frequency	
314	Line density	
315	Frame average	
316	Gray scale map	
317	Tint map	
	·	
318	Dynamic range	
319	Rejection	
320	Gain	
321	Suppression	
322	SRI	
323	Accumulation	
324	Visualization	
325	Radiant flow ™	
326	Easy, fast visualization of tiny vessels, displaying as a 3D effect	
327	Available in Color Doppler, Power Doppler and MVI	
328	B Steer+ (Option)	
329	Available on the following probes: L2-9-D, ML6-15-D, L8-18i-D, L3-12-D, L2-9VN-D	
330	Coded contrast imaging (Option)	
331	Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D, C2-7-D, C2-7VN-D, C3-10-D, IC5-9-D, L2-9VN-D, L3-12-D, M5Sc-D, ML6-15-D, RAB6-D, RIC5-9-D, L6-24-D	
772	2 contrast timers	
332	Timed updates: 0.05 – 10 seconds	
333		
334	Accumulation mode, seven levels	
335	Maximum enhance mode	
336	Flash	
337	Time intensity curve (TIC) analysis	
338	Parametric imaging	
339	Ability to save still image during clip acquisition	

	The LOGIQ Fortis is designed for compatibility with most commercially available	ultrasound contrast agents.		
	Because the availability of these agents is subject to government regulation and approval, product features			
340	intended for use with these agents may not be commercially marketed nor made			
340	agent is cleared for use.	e available before the contrast		
		and ariand annulus are arian after		
L		Contrast related product features are enabled only on systems for delivery to an authorized country or region of use.		
341	LOGIQView			
342	Extended field of view Imaging			
343	Up to 160 cm (63") scan length			
344	Available on all 2D imaging probes			
345	For use in B-Mode			
346	CrossXBeam is available on linear probes			
347	Auto detection of scan direction			
348	Pre-or post-process zoom			
349	Rotation			
350	Auto best fit on monitor			
351	Measurements in B-Mode			
352	3D			
353	Allows unlimited rotation and planar translation			
354	3D reconstruction from CINE sweep			
355	Easy 3D available on all probes			
356	Advanced 3D			
357	Acquisition of color data			
358				
359	Automatic rendering 3D landscape technology			
360	3D landscape technology  3D movie			
361	Real-time 4D (Option)			
301	real time is (option)	• Real Time 4D		
362	Acquisition modes	Spatio-Temporal Image Correlation (Option)		
302	Acquisition modes	Static 3D		
		• 3D rendering (diverse surface and intensity projection modes)		
		• Sectional planes (3 section planes perpendicular to each other)		
		Omniview (Option)		
		Volume contrast imaging – Static (Option)		
		Volume contrast imaging – Omniview (Option)		
363	Visualization modes	Tomographic ultrasound imaging (Option)		
		Volume Analyses		
		- VOCAL: semi-auto/manual segmentation tool		
		(segmentation using touch screen) (Option)		
		- 3D Static only		
		– Threshold Volume: measure		
		volume below and above a threshold		
		• Surface texture, surface smooth, max-, min-		
7.6.4		and X-ray (average intensity projection),		
364	Render mode	mix mode of two render modes		
		• HD <i>live</i> ™		
365	SonoRender <i>live</i>			
366	Curved 3 point Render start			
367	3D Movie			
368	Scalpel: 3D cut tool			
	,	• Quad: A-/B-/C-Plane/3D		
369	Display format:	• Dual: A-Plane/3D		
303		• Single: 3D or A- or B- or C-Plane		
370	Automated Volume Calculation – VOCAL II	0		
371	Betaview			
372	Volume navigation (Option)			
373	Available on the following probes: C1-6VN-D, C2-9VN-D, C2-7VN-D, C3-10-D, L2-	9VN-D, ML6-15-D, IC5-9-D, L8-18i-D, M5Sc-D		
774	Sonsor-based acquisition			
374	Sensor-based acquisition Position markers			
375				
376	Needle tip tracking			
377	Virtual tracking			
378	Auto image registration  Tru/D feature includes			
379	Tru3D feature includes  Pender modes; gray surface, texture, min, may, average intensity.			
380	Render modes: gray surface, texture, min-, max-, average-intensity			

355   Measurements: dollarins, angle, anne, volume		
Sept. Proceedings of the Sept.	381	Measurements: distance, angle, area, volume
Sale Substance programs Sale Substance Sub		
Sept including any anotations, mode transitions, basic imaging controls and measurement initiation  (compare Assistant (Option)  All measurement initiation  All measureme		
Sage Include image annotations, mode transitions, basic imaging controls and measurement initiation  Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning.  Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning.  Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning.  Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning.  Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning.  Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning.  Allows side-by-side comparison of previous ultrasound and supply side scanning.  Allows assessment  Allows assessment  Allows examinate includes measurements and locations for nodule, parathyroid and lymph nodes.  Allows examinate scanning includes measurements and locations for nodule, parathyroid and lymph nodes.  Allows examinate scanning includes measurements and locations for nodule, parathyroid and lymph nodes.  Allows examinate scanning includes measurements and locations for nodule, parathyroid and lymph nodes.  Allows examinate scanning includes measurements and locations for nodule, parathyroid and lymph nodes.  Allows examinate scanning includes measurements and locations for nodule, parathyroid and lymph nodes.  Basture scanning includes measurements and locations for nodule, parathyroid and lymph nodes.  Basture scanning includes measurements and locations for nodule, parathyroid and lymph nodes.  Basture scanning includes measurement and locations for nodule, parathyroid and lymph nodes.  Basture scanning includes measurement display in RPs and meters personnel.  Basture scanning includes measurement display in RPs and meters personnel.  Basture scanning includes measurement display in RPs and meters personnel.  Basture scanning includes measurement display in RPs and meters personnel.  Basture sca		
Signature Assistant Cybrion  Seature Security Package  Automassurement  Worksheet summary includes measurements and locations for lesions and lymph nodes  Package Security Package  Read of Security Package (Option)  Worksheet summary includes measurements and locations for lesions and lymph nodes  Package Security Package (Option)  Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes  Package Security Package (Option)  Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes  Package Security Package (Option)  Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes  Package Security Package (Option)  Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes  Package Security Package (Option)  Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes  Package Security Package (Option)  Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes  Package Security Package (Option)  Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes  Package Security Package (Option)  Worksheet Earth Package (Option)  Worksheet Earth Package (Option)  Package Security Package (Option)  Package Security Package (Option)  Worksheet Earth Package (Option)  Package Security Package Security Package (Op		` · ·
Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning  Personal productivity package Auto measurement  Violatives summary includes measurements and locations for lesions and lymph nodes  Personal productivity package  Violatives summary includes measurements and locations for lesions and lymph nodes  Personal productivity package (Option)  Violatives summary includes measurements and locations for nodule, parathyroid and lymph nodes  Personal productivity package (Option)  Violatives summary includes measurements and locations for nodule, parathyroid and lymph nodes  Personal Pers		
According to the company of the co		
Auto-measurement	388	Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning
Social Section Seasonment	389	Breast productivity package
Secture assessment	390	Auto measurement
BIRADS*** assessment	391	Worksheet summary includes measurements and locations for lesions and lymph nodes
Ser editable	392	
Tyroid productivity package (Option)		
Auto measurement  Automateur turneary includes measurements and locations for nodule, parathyroid and lymph nodes  Feature assessment  Barbara sessessment  Ser disable  Automatically salect category, probe, preset, or scan assistant from workist exam description  Automatically salect category, probe, preset, or scan assistant from workist exam description  Automatically salect category, probe, preset, and scan assistant from workist exam description  Automatically salect category, probe, preset, and scan assistant from workist exam description  Available on the following probes: C1-6-D, C1-6NN-D, L2-9-D, L2-9NN-D, IC5-9-D, L8-18i-D, ML6-15-D, L3-12-D  Available on the following probes: C1-6-D, C1-6NN-D, L2-9-D, L2-9NN-D, IC5-9-D, L8-18i-D, ML6-15-D, L3-12-D  Starp and dual view display  Applications: Addominal, Breast, Musculoskeletal, Small Parts, Prostate  Strain elastography (Option)  Available on the following probes: ML6-15-D, L2-9N-D, L2-9NN-D, L5-12-D, IC5-9-D, C2-9NN-D, C1-6-D, C1-6NN-D, L8-18i-D, BE9CS-D  Relative analysis tool  Applications: Addominal, Breast, Musculoskeletal, Small Parts, Prostate, Thyroid  UGAP (Option)  Available on the following probes: C1-6-D, C1-6NN-D, C2-9-D, C2-9NN-D  Measures liver attenuation: fattenuation coefficient (Id8/cn/MHz)) by auto measure algorithm with reference 8-mode  Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)  Triction  Valiable in color and power Dioppler  Triction  Trisue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information  Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information  Advanced and flexible stress echo examination capabilities  Trisue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information  Advanced and flexible stress echo examination capabilities  Trisue color overlay can be removed to show just the 2D image, still retaining the tissue velocity informa		
Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes   Peature assessment		
Feature assessment		
BI-RADS** assessment		
User editable		
Start Assistant  402 Automatically select category, probe, preset, or scan assistant from worklist exam description  403 Learn the category, probe, preset, and scan assistant based on exam description  404 Shear Wave Elastography (Option)  405 Available on the following probes: C1-6-D, C1-6VN-D, 12-9-D, 12-9VN-D, IC5-9-D, 18-18i-D, ML6-15-D, L3-12-D  406 User programmable measurement display in IPa and meters per second  407 Single and dual view display  408 Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate  409 Strain elastography (Option)  410 Available on the following probes: ML6-15-D, 12-9-D, 12-9VN-D, L3-12-D, IC5-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D  411 Relative analysis tool  412 Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate, Thyroid  413 UGAP (Option)  414 Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D  415 Measures liver attenuation* (attenuation coefficient (dB/cm/MHz)) by auto measure algorithm with reference B-mode  416 Simple and 2D color map lattenuation color map and Measurement Position Indicator Map)  417 Quantitative flow analysis (Option)  418 Available in color and power Doppler  419 TV (Option)  420 Available on the following probes: MS-C, D, GT-RS, 65-D probes  421 Myocardial Doppler imaging with color overlay on tissue image  422 Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information  423 Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane  424 Q-Analysis: multiple time-motion trace display from selected points in the myocardium  425 Stress echo (Option)  436 Advanced and flexible stress echo examination capabilities  437 Provides exercise and pharmacological protocol templates  438 Forest existent description of existing templates or creation of new templates  439 Rover forest contributions configuration of existing templates or creation of new templates  440 Audination of the comple	-	
Automatically select category, probe, preset, and scan assistant from worklist exam description  405 Learn the category, probe, preset, and scan assistant based on exam description  406 Ashailable on the following probes: C1-6-D, C1-6VN-D, L2-9-D, L2-9VN-D, IC5-9-D, L8-18-D, ML6-15-D, L3-12-D  407 Single and dual view display  408 Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate  409 Strain elastography (Option)  410 Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, IC5-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18-D, BE9CS-D  411 Relative analysis tool  412 Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate  413 UGAP (Option)  414 Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, L3-12-D, IC5-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18-D, BE9CS-D  415 Messures liver attenuation is a stream of the complete in the following probes: C1-6-D, C1-6WN-D, C2-9-D, C2-9VN-D  416 Simple and 2D color map (attenuation coefficient (Ba/cm/MHz)) by auto measure algorithm with reference B-mode  417 Quantitative flow analysis (Option)  418 Available on the following probes: MSSc-D, 6Tc-RS, 6S-D probes  419 THI (Option)  420 Available on the following probes: MSSc-D, 6Tc-RS, 6S-D probes  421 Myocardial Doppler imaging with color overlay on tissue image  422 Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information  423 Curved anatomical M-Moder free (curved) drawing of M-Mode generated from the cursor independent from the axial plane  424 Q-Analysis: multiple time-motion trace display from selected points in the myocardium  425 Stress echo (Option)  426 Advanced and flexible stress echo examination capabilities  427 Provides exercis and pharmacological protocol templates  428 6 default templates  429 Revenue card nickly during acquisition for stress level comparison (dual screen)  430 Reference scan display during acquisition for stress level comparison (dual screen)  431 Baseline level/previous level selectable  432 Au		
Learn the category, probe, preset, and scan assistant based on exam description  Audiable on the following probes: C1-6-D, C1-6VN-D, L2-9-D, L2-9VN-D, IC5-9-D, L8-18i-D, ML6-15-D, L3-12-D  User programmable measurement display in kPa and meters per second  Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate  Strain elastography (Dption)  Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, IC5-9-D, C2-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D  Relative analysis tool  Relative analysis tool  WGAP (Option)  WGAP (Optio	-	
Shear Wave Elastography (Option)  405 Available on the following probes: C1-6-D, C1-6-VN-D, L2-9-D, L2-9VN-D, IC5-9-D, L8-18i-D, ML6-15-D, L3-12-D  406 User programmable measurement display in kPa and meters per second  407 Single and dual view display  408 Applications: Abdominal. Breast, Musculoskeletal, Small Parts, Prostate  409 Strain elastography (Option)  400 Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, L3-12-D, IC5-9-D, C2-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D  411 Relative analysis tool  412 Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate, Thyroid  413 UGAP (Option)  414 Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, L3-12-D, IC5-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D  415 Measures liver attenuation of attenuation coefficient (Id5-IMM-M21) by auto measure algorithm with reference B-mode  416 Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)  417 Quantitative flow analysis (Option)  418 Available in rolor and power Doppler  419 TVI (Option)  420 Available in the following probes: M5Sc-D, 6Tc-R5, 65-D probes  421 Myocardial Doppler imaging with color overlay on tissue image  422 Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information  423 Curved anatomical H-Mode free (curved) drawing of M-Mode generated from the cursor independent from the axial plane  424 Q-Analysis: multiple time-motion trace display from selected points in the myocardium  425 Stress acho (Option)  426 Advanced and flexible stress echo examination capabilities  427 Provide aerical and particular of existing templates  428 Geference scan display during acquisition for stress level comparison (dual screen)  439 Baseline level/previous level selectable  430 Wall motion scoring (bulls-eye and segmental)  431 Baseline level/previous level selectable  432 Raw data continuous capture  433 Over 100 sec. available  434 Wall motion scoring foulties of the complete left ven	-	
Available on the following probes: C1-6-D, C1-6VN-D, L2-9-D, L2-9VN-D, LC5-9-D, L8-18-D, ML6-15-D, L3-12-D  406 User programmable measurement display in kPa and meters per second  407 Single and dual view display  408 Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate  409 Strain elastography (Dption)  410 Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, L3-12-D, IC5-9-D, C2-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D  411 Relative analysis tool  412 Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate, Thyroid  413 UGAP (Option)  414 Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D  415 Measures liver attenuation* (attenuation coefficient [dB/cm/MHz]) by auto measure algorithm with reference B-mode  416 Simple and 2D color map (attenuation cool map and Measurement Position Indicator Map)  417 Quantitative flow analysis (Option)  418 Available in color and power Doppler  419 TYI (Option)  420 Available in the following probes: MSC-D, 6Tc-RS, 6S-D probes  421 Mylocardial Doppler imaging with color overlay on tissue image  422 Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information  423 Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane  424 Q-Analysis: multiple time-motion trace display from selected points in the myocardium  425 Stress echo (Option)  426 Advanced and flexible stress echo examination capabilities  427 Provides exercise and pharmacological protocol templates  428 Gefarulate editor for user configuration of existing templates or creation of new templates  439 Reference scan display during acquisition for stress level comparison (dual screen)  431 Baseline level/previous level selectable  432 Raw data continuous capture  433 Over 100 sec. available  434 Wall motion scoring (bulls-eye and segmental)  435 Automatical Provides and the complete left ventricle with all segments at a glance by combining t		
User programmable measurement display in kPa and meters per second		
Single and dual view display Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate Available on the following probes: ML6-15-D, L2-9-D, L2-9-D, L2-9-D, C2-9-D, C2-9-D, C2-9-V-D, C1-6-D, C1-6-V-D, L8-18-D, BE9CS-D Available on the following probes: ML6-15-D, L2-9-D, L2-9-D, L2-9-V-D, C3-9-D, C2-9-V-D, C3-9-D, C2-9-V-D, C3-9-D, C3-9-V-D, C3-9-V-D		
Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate  Strain elastography (Option)  Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, L3-12-D, IC5-9-D, C2-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D  Relative analysis tool  Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D  Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D  Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D  Simple and 2D color map (attenuation coefficient Id8/mcn/MHz) by auto measure algorithm with reference B-mode  Simple and 2D color map (attenuation coefficient Id8/mcn/MHz) by auto measure algorithm with reference B-mode  110 Simple and 2D color map (attenuation coefficient Id8/mcn/MHz) by auto measure algorithm with reference B-mode  111 TVI (Option)  Available in color and power Doppler  112 TVI (Option)  Available on the following probes: M5Sc-D, 61c-RS, 65-D probes  Available on the following probes: M5Sc-D, 61c-RS, 65-D probes  Available on the following probes: M5Sc-D, 61c-RS, 65-D probes  Available on the following probes: M5Sc-D, 61c-RS, 65-D probes  Available on the following probes: M5Sc-D, 61c-RS, 65-D probes  Available on the following probes: M5Sc-D, 61c-RS, 65-D probes  Available on the following probes: M5Sc-D, 61c-RS, 65-D probes  Available on the following probes: M5Sc-D, 61c-RS, 65-D probes  M5C-CARCHARD MSC-MSC-MSC-MSC-MSC-MSC-MSC-MSC-MSC-MSC-		
Strain elastography (Option)	-	
Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, L3-12-D, IC5-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D Relative analysis tool  Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate, Thyroid  UGAP (Option)  414 Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D  415 Measures liver attenuation "(attenuation coefficient [d8/cm/MHz]) by auto measure algorithm with reference B-mode  Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)  416 Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)  417 Quantitative flow analysis (Option)  418 Available in color and power Doppler  419 TVI (Option)  420 Available on the following probes: MSSc-D, 6Tc-RS, 6S-D probes  421 Myocardial Doppler imaging with color overlay on tissue image  422 Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information  423 Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane  424 Q-Analysis: multiple time-motion trace display from selected points in the myocardium  425 Stress cho (Option)  426 Advanced and flexible stress echo examination capabilities  427 Provides exercise and pharmacological protocol templates  428 6 default templates  429 Template editor for user configuration of existing templates or creation of new templates  430 Reference scan display during acquisition for stress level comparison (dual screen)  431 Baseline level/previous level selectable  432 Raw data continuous capture  433 Over 100 sec. available  434 Wall motion scoring (bulls-eye and segmental)  536 Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain)  437 according to same projection on previous level  438 Auto EF (Option)  440 Allows assessment of the complete left ventricle with all segments at a glance by combining three longitudinal views into one comprehensive bulls-eye view	-	
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into one comprehensive bulls-eye view	439	
Into one comprehensive buils-eye view	440	
441   ZD strain based data moves into clinical practice		
	441	2D Strain based data moves into clinical practice

442	Virtual Convex	
443	Provides a convex field of view	
444	Compatible with CrossXBeam	
445	Available on all linear and sector probes	
446	SRI-HD and Advanced SRI	
447	Speckle reduction imaging	
448	Provides multiple levels of speckle reduction	
449	Compatible with side-by-side DualView display	
	, , , , , , , , , , , , , , , , , , , ,	• Type 1
	Advanced SRI:	- Compatible with all linear, convex and sector probes
450	two types selectable	• Type 2 (Option)
	N. A.	- Compatible with OB/GYN application
451	CrossXBeam	
452	Provides variable angle spatial compounding	
453	Live side-by-side DualView display	
		• Color mode
		• PW
454	Compatible with	• SRI
		Coded harmonic imaging
		Virtual convex
455	Available on all curved and linear probes	
456	Controls available while "live"	
457	Magnification Zoom: Magnifies the entire image on the screen without zoom ROI, 202	x maximum zoom factor
458	Pan Zoom: Magnifies the display of the data within the ROI	
459	HD Zoom: Magnifies the image within the zoom ROI, with higher spatial resolution th	an original images
		• Gain
		• TGC
		Dynamic range
460	B/M/CrossXBeam-Mode	Acoustic output
		Framerate control
		Sweep speed for M-Mode
		CrossXBeam angle
		• Gain
		Dynamic range
		Acoustic output
		Transmission frequency
461	PW-Mode	• PRF
		• Wall filter
		Spectral averaging
		Sample volume gate: length, depth
		Velocity scale
		• CFM gain
		CFM velocity range
		Acoustic output
		• Wall echo filter
462	Color Flow-Mode	• Packet size
702	Color Flow-Mode	Frame rate control
		CFM spatial filter
		CFM frame averaging
		CFM line resolution
		Frequency/velocity baseline shift
463	Controls available on "freeze" or recall	
464	Automatic optimization	
465	SRI	
466	CrossXBeam – display non-compounded and compounded image simultaneously in split screen	
467	3D reconstruction from a stored CINE loop	
		Gray map optimization
		• TGC
468	B/M/CrossXBeam-Mode	• Colorized B and M
		• Frame average (loops only)
		Dynamic range
469	Anatomical M-Mode	
470	Magnification zoom	
471	Pan zoom	
472	Maximum read zoom to 8x	

473	Baseline shift	
474	Sweep speed	
475	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
476	Color flow	<ul> <li>Overall gain (loops and stills)</li> <li>Color map</li> <li>Transparency map</li> <li>Frame averaging (loops only)</li> <li>Flash suppression</li> <li>CFM display threshold</li> <li>Spectral invert for color/Doppler</li> </ul>
477	Anatomical M-Mode on cine loop	
478	4D	<ul> <li>Gray map, colorize</li> <li>Post gain</li> <li>Change display – single, dual, quad sectional or rendered</li> </ul>
479	Measurements/Calculations	
480	General B-Mode	
481	Depth and distance	
482	Circumference (ellipse/trace)	
483	Area (ellipse/trace)	
484	Volume (ellipsoid)	
485	% Stenosis (area or diameter)	
486	Angle between two lines	
487	Dual B-mode capability	
488	General M-Mode	
489	M-Depth	
490	Distance	
491	Time	
492	Slope	
493 494	Heart rate  General Doppler measurements/calculations	
494	Velocity Velocity	
496	Time	
497	A/B ratio (velocities/frequency ratio)	
498	PS (Peak Systole)	
499	ED (End Diastole)	
500	PS/ED (PS/ED Ratio)	
501	ED/PS (ED/PS Ratio)	
502	AT (Acceleration Time)	
503	ACCEL (Acceleration)	
504	TAMAX (Time Averaged Maximum Velocity)	
505	Volume flow (TAMEAN and vessel area)	
506	Heart rate	
507	PI (Pulsatility Index)	
508	RI (Resistivity Index)	
509 510	Real-time Doppler Auto Measurements/Calculations	
510	PS (Peak Systole) ED (End Diastole)	
511 512	MD (Minimum Diastole)	
513	PI (Pulsatility Index)	
514	RI (Resistivity Index)	
515	AT (Acceleration Time)	
	1	

516	ACC (Acceleration)	
517	PS/ED (PS/ED Ratio)	
518	ED/PS (ED/PS Ratio)	
519	HR (Heart Rate)	
520	TAMAX (Time Averaged Maximum velocity)	
521	PVAL (Peak Velocity value)	
522	Volume flow (TAMEAN and vessel area)	
523	Abdominal measurements/calculations	
524	Shear Elasto velocity	
525	Shear Elasto stiffness	
526	Attenuation rate	
527	Attenuation coefficient	
528	Summary reports	
529	Small Parts measurements/calculations	
530	Breast Lesion	
531	Thyroid	
532	Parathyroid	
533	Lymph Node	
534	Nodule	
535	Isthmus AP	
536	Shear Elasto velocity	
537	Shear Elasto stiffness	
538	Summary reports	
539	OB measurements/calculations	
540	Gestational age by	<ul> <li>GS (Gestational Sac)</li> <li>CRL (Crown Rump Length)</li> <li>FL (Femur Length)</li> <li>BPD (Biparietal Diameter)</li> <li>AC (Abdominal Circumference)</li> <li>HC (Head Circumference)</li> <li>APTD x TTD (Anterior/Posterior Trunk Diameter by Transverse Trunk Diameter)</li> <li>FTA (Fetal Trunk Cross-sectional Area)</li> <li>HL (Humerus Length)</li> <li>BD (Binocular Distance)</li> <li>FT (Foot Length)</li> <li>OFD (Occipital Frontal Diameter)</li> <li>TAD (Transverse Abdominal Diameter)</li> <li>TCD (Transverse Cerebellum Diameter)</li> <li>THD (Thorax Transverse Diameter)</li> <li>TIB (Tibia Length)</li> <li>ULNA (Ulna Length)</li> <li>OOD (Outer Orbital Diameter)</li> <li>IOD (Inner Orbital Diameter)</li> <li>FIB (Fibula length)</li> <li>Radius (Radius length)</li> <li>LV (Lateral Ventricle width) (= SL)</li> </ul>
541	Estimated Fetal Weight (EFW) by:	• AC, BPD • AC, BPD, FL • AC, BPD, FL, HC • AC, FL • AC, FL • AC, FL, HC • AC, HC • BPD, APTD, TTD, FL • BPD, APTD, TTD, SL
542	Fetal graphical trending	
543	Growth percentiles	
544	Multi-gestational calculations (4)	
545	Fetal qualitative description (anatomical survey)	
546	Fetal environmental description (biophysical profile)	
547	Programmable OB tables	
548	Over 20 selectable OB calculations	
549	Expanded worksheets	
550	Summary Reports	
. — —	· -	

551	OB Calculations and ratios
552	FL/BPD
553	FL/AC
554	FL/HC
555	HC/AC
556	CI (Cephalic Index)
557	AFI (Amniotic Fluid Index)
558	CTAR (Cardio-Thoracic Area Ratio)
	Measurements/calculations by: Alexander, ASUM, ASUM 2001, Bahlmann, Baschat, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chervenak, Chitty, Doubilet, Ebing, Eik-Nes Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kramer, Kurmanavicius, Kurtz, Mari, Mayden, Mercer, Merz, Moore, Nelson, Osaka University, Paris, Pexsters, Rempen, Robinson, Shepard, Shepard/Warsoff, Sonek, Tokyo University, Tokyo/Shinozuka, WHO, Williams, Yarkoni
560	OB measure assistant
561	Allows automatic measurement of BPD, HC, FL and AC
	User editable
563	SonoNT and SonoIT
564	SonoNT measures the contour detection of the NT border
565	SonoIT is a system supported measurement for Intracranial Translucency
566	GYN measurements/calculations
567	Right ovary length, width, height
568	Left ovary length, width, height
569	Uterus length, width, height
570	Cervix length, trace
571	Ovarian volume
572	ENDO (Endometrial thickness)
573	Ovarian RI
574	Uterine RI
575	Follicular measurements
576	Fibroid measurements
577	Qualitative description (anatomical survey)
578	Mean Uterine Artery (Gomez) Doppler Measurement
579	Summary reports
580	Vascular measurements/calculations
581	SYS DCCA (Systolic Distal Common Carotid Artery)
582	DIAS DCCA (Diastolic Distal Common Carotid Artery)
583	SYS MCCA (Systolic Mid Common Carotid Artery)
584	DIAS MCCA (Diastolic Mid Common Carotid Artery)
	SYS PCCA (Systolic Proximal Common Carotid Artery)
586	DIAS PCCA (Diastolic Proximal Common Carotid Artery)
587	SYS DICA (Systolic Distal Internal Carotid Artery)
588	DIAS DICA (Systolic Distal Internal Carotid Artery)
	SYS MICA (Systolic Mid Internal Carotid Artery)
590	DIAS MICA (Diastolic Mid Internal Carotid Artery) SYS PICA (Systolic Proximal Internal Carotid Artery)
	DIAS PICA (Diastolic Proximal Internal Carotid Artery)
592 503	SYS DECA (Systolic Distal External Carotid Artery)
593 594	DIAS DECA (Diastolic Distal External Carotid Artery)
	SYS PECA (Systolic Proximal External Carotid Artery)
595	DIAS PECA (Diastolic Proximal External Carotid Artery)
596	VERT (Systolic Vertebral Velocity)
597	SUBCLAV (Systolic Subclavian Velocity)
	Auto IMT (Option)
	Summary reports
	Urological measurements/calculations
602	Bladder volume
603	Prostate volume
604	Left/right renal volume
605	Generic volume
606	Post-void bladder volume
607	Pelvic floor measurements
608	Summary reports
	TCD measurements/calculations
	MCA, ACA, PCA, ICA
611	AComA, PCom A
612	Vert Vert
OIL	reit

613 Basilar 614 MCA/ICA Ratio 615 Summary reports 616 Pediatric and Neonatal measurements/calculations 617 Hip angle		
615 Summary reports 616 Pediatric and Neonatal measurements/calculations		
616 Pediatric and Neonatal measurements/calculations		
<del></del>		
618 Hip orientation 619 Summary reports		
620 Probes (All Optional)		
621 <b>6S-D, sector probe</b>		
622 Applications Pediatric cardiac, pediatric al	bdomen	
623 Bandwidth 2.0 – 8.0 MHz		
624 Number of elements 96		
625 Field of view (max.) 115°		
626 Physical foot print 15 x 9 mm		
627 B-Mode frequency 4.0, 4.2, 5.0, 5.5, 6.5 MHz		
628 Harmonic frequency 4.7, 4.9, 5.3, 5.7, 6.1, 6.3 MHz		
629 PW Doppler frequency 2.8, 3.1, 3.6, 4.2 MHz		
630 Color Doppler frequency 2.7, 3.1, 4.2, 5.0 MHz 631 6Tc-RS, trans-esophageal probe		
632 Applications Adult cardiac 633 Bandwidth 2.0 - 8.0 MHz		
634 Number of elements 64		
635 Field of view (max.) 90°		
636 Physical foot print 37 x 13 x 10 mm		
637 B-Mode frequency 5.0, 6.0, 6.5 MHz		
638 Harmonic frequency 6.0 MHz		
639 PW Doppler frequency 3.1, 3.6, 4.2, 5.0, 6.3 MHz		
640 Color Doppler frequency 3.3, 4.1, 4.7, 5.5 MHz		
641 <b>BE9CS-D</b>		
642 Applications Urology		
Single angle disposable (F83	587M):	
Biopsy guide Single angle, reusable (E838)		
644 Bandwidth 3.0 - 12.0 MHz		
645 Number of elements 64		
646 Field of view (max.) 133°		
647 Physical foot print 19 x 19 mm		
648 B-Mode frequency 6.0, 7.0, 8.0, 9.0 MHz		
649 Harmonic frequency 7.0, 8.0, 9.0, 10.0 MHz		
650 PW Doppler frequency 4.2, 5.0, 6.3 MHz		
651 Color Doppler frequency 4.3, 6.3, 8.2 MHz		
652 C1-6-D, XDclear™ convex probe		
Applications  Applications  Abdomen, OB/GYN, pediatric musculoskeletal	c, peripheral vascular, general	
654 Biopsy guide Multi-angle, disposable with	a reusable bracket (H4917VB)	
655 Bandwidth 1.0 – 6.0 MHz		
656 Number of elements 192		
657 Field of view (max.) 80°		
658 Physical foot print 67 x 11 mm		
659 B-Mode frequency 2.0, 2.5, 3.0, 4.0 MHz		
660 Harmonic frequency 1.5, 2.5, 3.0, 4.5, 6.0, 6.5 MHz		
661 PW Doppler frequency 1.7, 2.1, 2.5, 3.6 MHz		
662 Color Doppler frequency 1.8, 2.1, 2.5, 2.8, 3.0 MHz		
	C1-6VN-D, VNav inside XDclear convex probe	
VNav sensor inside probe for Volume Navigation tracking without sensor cables		
Applications  Applications  Abdomen, OB/GYN, pediatric musculoskeletal	c, peripheral vascular, general	
	a reusable bracket (H4917VB)	
667 Bandwidth 1.0 – 6.0 MHz		
668 Number of elements 192		
669 Field of view (max.) 80°		
670 Physical foot print 67 x 11 mm		
671 B-Mode frequency 2.0, 2.5, 3.0, 4.0 MHz		
672 Harmonic frequency 1.5, 2.5, 3.0, 4.5, 6.0, 6.5 MHz		
673 PW Doppler frequency 1.7, 2.1, 2.5, 3.6 MHz		
674         Color Doppler frequency         1.8, 2.1, 2.5, 2.8, 3.0 MHz		

C7F	C2.7 D. miero convoy hierou nycho	
675 676	C2-7-D, micro convex biopsy probe Applications	Abdomen, pediatric
070	Applications	Multi-angle, disposable with a reusable bracket (H40482LK),
677	Biopsy guide	Multi-Angle, reusable stainless bracket (H40482LL)
678	Bandwidth	1.0 – 6.0 MHz
679	Number of elements	144
680	Field of view (max.)	110°
681	Physical foot print	31 x 10 mm
682	B-Mode frequency	2.5, 4.0, 6.0 MHz
683	Harmonic frequency	3.0, 4.0, 5.0, 6.0 MHz
684	PW Doppler frequency	1.8, 2.1, 2.5, 3.1 MHz
685	Color Doppler frequency	2.1, 2.4, 3.1, 3.7 MHz
686	C2-7-VN-D, VNav inside XDclear convex probe	2.1, 2.7, 3.1, 3.7 1 11 12
687	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
688	Applications	Abdomen, pediatric
		Multi-angle, disposable with a reusable bracket (H40482LK),
689	Biopsy guide	Multi-Angle, reusable stainless bracket (H40482LL)
690	Bandwidth	1.0 – 6.0 MHz
691	Number of elements	144
692	Field of view (max.)	110°
693	Physical foot print	31 x 10 mm
694	B-Mode frequency	2.5, 4.0, 6.0 MHz
695	Harmonic frequency	3.0, 4.0, 5.0, 6.0 MHz
696	PW Doppler frequency	1.8, 2.1, 2.5, 3.1 MHz
697	Color Doppler frequency	2.1, 2.4, 3.1, 3.7 MHz
698	C2-9-D, XDclear convex probe	
	•	Abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal
699	Applications	transcranial, general musculoskeletal
700	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BA)
701	Bandwidth	2.0 – 9.0 MHz
702	Number of elements	192
703	Field of view (max.)	80°
704	Physical foot print	52 x 9 mm
705	B-Mode frequency	3.0, 4.5, 6.0, 7.0 MHz
706	Harmonic frequency	2.5, 3.5, 5.0, 7.0, 9.0 MHz
707	PW Doppler frequency	2.5, 3.1, 3.6, 4.2, 5.0, 6.3 MHz
708	Color Doppler frequency	3.1, 4.2, 4.6, 5.4 MHz
709	C2-9-VN-D, VNav inside XDclear convex probe	
710	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
711	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal
		transcranial, general musculoskeletal
712	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BA)
713	Bandwidth	2.0 – 9.0 MHz
714	Number of elements	192
715	Field of view (max.)	80°
716	Physical foot print	52 x 9 mm
717	B-Mode frequency	3.0, 4.5, 6.0, 7.0 MHz
718	Harmonic frequency	2.5, 3.5, 5.0, 7.0, 9.0 MHz
719	PW Doppler frequency	2.5, 3.1, 3.6, 4.2, 5.0, 6.3 MHz
720	Color Doppler frequency	3.1, 4.2, 4.6, 5.4 MHz
721	C3-10-D, XDclear micro convex probe	Abdom and the Book
722	Applications	Abdomen, neonatal, pediatric, peripheral vascular, neonatal transcranial,
	**	small part
723	Bandwidth New York Control of the Co	2.0 - 11.0 MHz
724	Number of elements	192
725	Field of view (max.)	95°
726	Physical foot print	26 x 5 mm
727	B-Mode frequency	4.0, 6.0, 8.0 MHz
728	Harmonic frequency	6.0, 8.0, 10.0 MHz
729	PW Doppler frequency	3.1, 4.2, 6.3, 7.1 MHz
730	Color Doppler frequency	3.9, 5.3, 6.6 MHz
731	IC5-9-D, micro convex probe	OD/CVN smale mi
732	Applications	OB/GYN, urology
733	Biopsy guide	Single angle, disposable with a disposable bracket (E8385MJ)
		or reusable bracket (H40412LN)

734	Bandwidth	3.0 – 10.0 MHz
735	Number of elements	192
736	Field of view (max.)	180°
737	Physical foot print	26 x 6 mm
738	B-Mode frequency	4.5, 5.0, 5.5, 6.0, 7.0, 8.0 MHz
739	Harmonic frequency	6.0, 6.5, 7.0, 9.0 MHz
740	PW Doppler frequency	3.6, 4.2, 5.0 MHz
741	Color Doppler frequency	4.6, 5.9, 6.7 MHz
742	L2-9-D, XDclear linear probe	
743	Applications	Peripheral vascular, pediatric, abdomen, OB/GYN, general musculoskeletal, superficial musculoskeletal, neonatal
		transcranial and small parts inculding breast, thyroid and scrotal
744	Biopsy guide	Multi-angle, disposable with a reusable bracket (H44901AM)
745	Bandwidth	2.0 – 10.0 MHz
746	Number of elements	192
747	Field of view (max.)	44 mm
748	Physical foot print	53 x 14 mm
749	B-Mode frequency	4.0, 4.5, 5.0, 6.0, 7.0 MHz
750	Harmonic frequency	5.0, 6.0, 7.0, 8.0, 9.0, 9.4 MHz
751	PW Doppler frequency	2.5, 2.8, 3.1, 3.6, 4.2, 5.0 MHz
752	Color Doppler frequency	3.1, 4.0, 4.6, 5.3 MHz
753	L2-9VN-D, VNav inside XDclear linear probe	
754	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
		Peripheral vascular, pediatric, abdomen, OB/GYN, general
755	Applications	musculoskeletal, superficial musculoskeletal, neonatal, neonatal
		transcranial and small parts inculding breast, thyroid and scrotal
756	Biopsy guide	Multi-angle, disposable with a reusable bracket (H44901AM)
757	Bandwidth	2.0 – 10.0 MHz
758	Number of elements	192
759	Field of view (max.)	44 mm
760	Physical foot print	53 x 14 mm
761	B-Mode frequency	4.0, 4.5, 5.0, 6.0, 7.0 MHz
762	Harmonic frequency	5.0, 6.0, 7.0, 8.0, 9.0, 9.4 MHz
763	PW Doppler frequency	2.5, 2.8, 3.1, 3.6, 4.2, 5.0 MHz
764	Color Doppler frequency	3.1, 4.0, 4.6, 5.3 MHz
765	L3-12-D, linear probe	3.2, 4.0, 4.0, 3.3 ( 1) 2
703	E5 12 D, inical probe	Abdomen, OB, general musculoskeletal,
766	Applications	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular
767	Diametra anide	
767	Biopsy guide	Multi-angle, disposable with a reusable bracket (H78652PA)
768	Bandwidth	3.0 – 11.0 MHz
769	Number of elements	256
770	Field of view (max.)	51 mm
771	Physical foot print	51 x 4 mm
772	B-Mode frequency	6.0, 8.0, 10.0, 12.0 MHz
773	Harmonic frequency	4.0, 6.0, 8.0, 10.0, 12.0 MHz
774	PW Doppler frequency	4.2, 5.0, 6.3, 8.3 MHz
775	Color Doppler frequency	4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz
776	L6-24-D, linear probe	General musculoskeletal, superficial
777	Applications	musculoskeletal, pediatrics, thyroid
778	Bandwidth	6.0 – 20.0 MHz
779	Number of elements	192
780	Field of view (max.)	26 mm
781	Physical foot print	26 x 2 mm
782	B-Mode frequency	12.0, 16.0, 21.0 MHz
783	Harmonic frequency	12.0, 18.0, 24.0 MHz
784	PW Doppler frequency	8.3, 10.0, 12.5 MHz
785	Color Doppler frequency	9.2, 11.2, 12.2 MHz
786	L8-18i-D, linear probe	
787	Applications	Small parts, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal, superficial musculoskeletal, intraoperative
	In the state of th	14.0 15.0 MUS
788	Bandwidth	4.0 – 15.0 MHz
788 789	Number of elements	168

790	Field of view (max.)	25 mm
790	Physical foot print	35 x 10 mm
792	B-Mode frequency	7.0, 9.0, 13.0, 16.0 MHz
793	Harmonic frequency	14.0, 16.0, 18.0 MHz
794	PW Doppler frequency	5.0, 6.3, 7.1, 8.3 MHz
795	Color Doppler frequency	6.3, 6.7, 9.6, 10.5 MHz
796	M5Sc-D, XDclear sector probe	0.3, 0.7, 3.0, 10.3 14112
797	Applications	Adult cardiac, pediatric cardiac, adult cephalic, abdominal
798	Biopsy guide	Multi-angle, disposable with a reusable bracket (H45561FC)
799	Bandwidth	1.0 – 5.0 MHz
800	Number of elements	288
801	Field of view (max.)	120°
802	Physical foot print	28 x 17 mm
803	B-Mode frequency	2.0, 2.5, 3.5, 4.5 MHz
804	Harmonic frequency	2.4, 3.0, 3.2, 3.3, 3.7, 4.0, 4.5 MHz
805	PW Doppler frequency	1.6, 1.7, 1.8, 1.9, 2.1, 2.5, 3.1, 3.6 MHz
806	Color Doppler frequency	1.7, 1.8, 1.9, 2.2, 2.4, 2.5, 3.0, 3.1, 3.7, 3.8 MHz
807	ML6-15-D, matrix array linear probe	1.7, 1.0, 1.3, 2.2, 2.4, 2.3, 3.0, 3.1, 3.7, 3.0 14112
807	Mico-15-D, matrix array inlear probe	
808	Applications	Abdomen, peripheral vascular, neonatal, pediatric, neonatal transcranial, general musculoskeletal, superficial musculoskeletal and small parts inculding breast, thyroid and scrotal
809	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LJ)
810	Bandwidth	4.0 - 16.0 MHz
811	Number of elements	1008
812	Field of view (max.)	50 mm
813	Physical foot print	50 x 10 mm
814	B-Mode frequency	7.0, 9.0, 10.0, 11.0, 12.0, 15.0 MHz
815	Harmonic frequency	10.0, 12.0, 14.0, 15.0 MHz
816	PW Doppler frequency	5.0, 6.3, 8.3 MHz
817	Color Doppler frequency	5.1, 6.1, 7.3, 8.2, 9.2, 10.3, 11.4, 12.4 MHz
818	P2D, CW split crystal probe	[3.1, 0.1, 1.3, 0.2, 3.2, 10.3, 11.7, 12.7 PH IZ
819	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
820	Frequency	2.1 MHz
821	P6D, CW split crystal probe	2.1 11112
822	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
823	Frequency	6.3 MHz
824	RAB6-D, convex volume probe	U.5 I'II IZ
825	Applications	Abdomen, OB/GYN, pediatric, neonatal
826	Biopsy guide	Single angle, reusable bracket (H46701AE)
827	Bandwidth	2.0 – 8.0 MHz
828	Number of elements	192
_		
	Field of view (max.)	80°
830	Physical foot print	62 x 34 mm
831	B-Mode frequency	3.5, 5.0, 8.0 MHz
832	Harmonic frequency	4.0, 5.0, 6.5, 8.0 MHz
833	PW Doppler frequency	3.1, 4.2, 5.0 MHz
834	Color Doppler frequency RIC5-9-D, convex volume probe	2.8, 3.5, 3.8 MHz
835	·	OD/CVAL usels as
836	Applications	OB/GYN, urology
837	Biopsy guide	Single angle, reusable (H46721R)
838	Bandwidth	3.0 – 10.0 MHz
839	Number of elements	192
840	Field of view (max.)	180°
841	Physical foot print	32 x 27 mm
842	B-Mode frequency	5.0, 5.5, 6.0, 6.5, 7.0, 8.0 MHz
843	Harmonic frequency	6.0, 6.5, 7.0, 9.0 MHz
844	PW Doppler frequency	3.6, 4.2, 5.0 MHz
845	Color Doppler frequency	4.3, 6.1, 7.3 MHz
846	External Inputs and outputs	
	(not including on-board peripherals)	
847	HDMI	
848	Ethernet	
849	Multiple USB 3.0 ports	
850	Safety Conformance	
	<u> </u>	

		,
851	The LOGIQ Fortis is:	
852	Classified to UL 60601-1 by a Nationally Recognized Test Lab	
853	Certified to CAN/CSA-C22.2 No. 60601.1-M90 by an SCC accredited test lab	
854	CE Marked to EU Medical Device Regulation MDR 2017/745	
855	Compliant to Council Directive 2011/65/EU for RoHS	
856	Conforms to the following standards for safety (including national deviations)	EMC Emissions group 1 class A device requirements as per sub clause 4.2 of CISPR 11  IEC 60601-1 Medical electrical equipment – Part 1: General requirements for safety  IEC 60601-1-2 Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic disturbance – Requirements and tests  IEC 60601-1-6 Medical electrical equipment Part 1-6 general requirements for basic safety and essential performance – Collateral standard: usability  IEC 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment  IEC 62366 Medical devices – Application of usability engineering to medical devices  IEC62366-1 Medical device software – Software life-cycle processes  ISO 10993-1 Biological evaluation of medical devices – Part 1: Evaluation and testing within a risk management process

857	Supplement: cardiac measurements/calculations	
858	B-Mode measurements	
		Aortic Root Diameter (Ao Root Diam)
		Aortic Arch Diameter (Ao Arch Diam)
859	Aorta	Ascending Aortic diameter (Ao Asc)
033	Aorta	<ul> <li>Descending Aortic Diameter (Ao Desc Diam)</li> </ul>
		Aorta Isthmus (Ao Isthmus)
		Aorta (Ao st junct)
		<ul> <li>Aortic Valve Cusp Separation (AV Cusp)</li> </ul>
860	Aortic valve	Aortic Valve Area Planimetry
000	A TOTAL VALVE	(AVA Planimetry)
		• (Trans AVA)
		Left Atrium Diameter (LA Diam)
		• LA Length (LA Major)
		• LA Width (LA Minor)
861	Left atrium	<ul> <li>Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao ratio)</li> </ul>
001	Lett attium	• Left Atrium Area (LAA(d), LAA(s))
		<ul> <li>Left Atrium Volume, Single Plane, Method of Disk (LAEDV A2C, LAESV</li> </ul>
		A2C) (LAEDV A4C, LAESV A4C), (LAEDV A-L, LAEDV Index A-L, LAESV A-L,
		LAESV Index A-L)
		• Left Ventricle Mass (LVPWd, LVPWs)
		• Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)
		<ul> <li>Left Ventricle Internal Diameter (LVIDd, LVI Ds) Left Ventricle Length</li> </ul>
		(LVLd, LVLs)
		<ul> <li>Left Ventricle Outflow Tract Diameter (LVOT Diam)</li> </ul>
		<ul> <li>Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs)</li> </ul>
		• Left Ventricle Length (LV Major)
862	Left ventricle	• Left Ventricle Width (LV Minor)
		<ul> <li>Left Ventricle Outflow Tract Area (LVOT)</li> </ul>
		• Left Ventricle Area, Two Chamber/Four Chamber/Short Axis (LVA (d),
		LVA (s))
		• Left Ventricle Endocardial Area, Width (LVA (d), LVA(s))
		• Left Ventricle Epicardial Area, Length (LVAepi (d), LVAepi (s))
		<ul> <li>Left Ventricle Mass Index (LVPWd, LVPWs)</li> </ul>
		• Ejection Fraction, Teichholz/Cube (LVIDd, LVIDs)
		• Left Ventricle Posterior Wall Fractional Shortening (LVPWd, LVPWs)
		Left Ventricle Posterior Wall Practional Shortening (LVPWG, LVPWS)     Left Ventricle Stroke Index, Teichholz/Cube (LVIDd, LVIDs and Body)
		Surface Area)
		Left Ventricle Fractional Shortening (LVIDd, LVIDs)     Left Ventricle Stroke Volume, Teichholz/Cubic (LVIDd, LVIDs)
		Left Ventricle Stroke Volume, Teichnolz/Cubic (LVIDa, LVIDs)     Left Ventricle Stroke Index, Single Plane, Two Chamber, Method of Disk
		(LVI Dd, LVIDs, LVSd, LVSs)
863	Left ventricle continued	• Left Ventricle Stroke Index, Single Plane, Four Chamber, Method of Disk
		(LVI Dd, LVIDs, LVSd, LVSs)
		• Left Ventricle Stroke Index, Bi-Plane,
		Bullet, Method of Disk (LVAd, LVAs)
		Interventricular Septum (IVS)     Interventriala Intervent Disputator (IVII D)
		Left Ventricle Internal Diameter (LVI D)     Left Ventricle Posterior Wall Thickness (LVPW)
		• Left Ventricle Posterior Wall Mickiness (LVPW)
		Mitral Valve Annulus Diameter (MV Ann Diam)
864	Mitral valve	• E-Point-to-Septum Separation (EPSS)
		Mitral Valve Area Planimetry (MVA Planimetry)
		Pulmonic Valve Area (PV Planimetry)
865	Pulmonic value	Pulmonic Valve Annulus Diameter
	Pulmonic valve	(PV Annulus Diam)
		Pulmonic Diameter (Pulmonic Diam)
		Right Atrium Diameter, Length (RAD Ma)
	1	
		Right Atrium Diameter, Width (RAD Mi)
066	St. L	• Right Athum Diameter, Width (RAD Mi) • Right Atrium Area (RAA)
866	Right atrium	• Right Atrium Area (RAA)
866	Right atrium	

	Т	Right Ventricle Outflow Tract Area (RVOT Planimetry)
		Right Ventricle Outflow Tract Area (RVOT Planimetry)     Left Pulmonary Artery Area (LPA Area)
		Right Pulmonary Artery Area (RPA Area)     Pight Ventricle Internal Disperter (RVIDd RVIDg)
		Right Ventricle Diameter (RVIDd, RVIDs)     Pight Ventricle Diameter Length (RVD Ma)
~~7		Right Ventricle Diameter, Length (RVD Ma)     Right Ventricle Diameter, Width (RVD Mi)
367	Right ventricle	Right Ventricle Diameter, Width (RVD Mi)     Right Ventricle Wall Thickness (RVAWd, RVAWs)
		Right Ventricle Wall Thickness (RVAWd, RVAWs)  Right Ventricle Outflow Treet Right (RVAT Right)
		Right Ventricle Outflow Tract Diameter (RVOT Diam)     (1.D.)
		Left Pulmonary Artery (LPA)
		Main Pulmonary Artery (MPA)     Control of the Pulmonary Artery (MPA)
		• Right Pulmonary Artery (RPA)
		Systemic Vein Diameter (Systemic Diam)
		Patent Ductus Arterosis Diameter (PDA Diam)
868	System inferior vena cava	Pericard Effusion (PEs)
00	System intendi vena cava	Patent Foramen Ovale Diameter (PFO Diam)
		Ventricular Septal Defect Diameter (VSD Diam)
		Interventricular Septum (IVS) Fractional Shortening (IVSd, IVSs)
369	Tricuspid valve	Tricuspid Valve Area (TV Panimetry)
כסנ	'	Tricuspid Valve Annulus Diameter (TV Annulus Diam)
370	M-Mode measurements	
		Aortic Root Diameter (Ao Root Diam)
		Aortic Valve
371	Aorta	Aortic Valve Diameter (AV Diam)
		Aortic Valve Cusp separation (AV Cusp)
		Aortic Valve Ejection Time (LVET)
372	Left atrium	• Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio)
) / L	Left durum	Left Atrium Diameter (LA Diam)
		<ul> <li>Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)</li> </ul>
		• Left Ventricle Internal Diameter (LVIDd, LVI Ds)
		<ul> <li>Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs)</li> </ul>
~~~		• Left Ventricle Ejection Time (LVET)
373	Left ventricle	• Left Ventricle Pre-Ejection Period (LVPEP)
		Interventricular Septum (IVS)
		Left Ventricle Internal Diameter (LVI D)
		• Left Ventricle Posterior Wall Thickness (LVPW)
		• E-Point-to-Septum Separation (EPSS)
		Mitral Valve Leaflet Separation (D-E Excursion)
		Mitral Valve Anterior Leaflet Excursion (D-E Excursion)
374	Mitral valve	• Mitral valve D-E Slope (D-E Slope)
		Mitral Valve E-F Slope (E-F Slope)
		Mitral Annular Plane Systolic Excursion (MAPSE)
875	Pulmonic valve	QRS Complex to End of Envelope (Q-PV close)
313	Pullionic vaive	Right Ventricle Internal Diameter (RVIDd, RVIDs)
		Right Ventricle Mall Thickness (RVAWd, RVAWs)
776	Right ventricle	Right Ventricle Wall Inickness (RVAWG, RVAWS)     Right Ventricle Outflow Tract Diameter (RVOT Diam)
376	Right ventricie	Right Ventricle Outflow Tract Diameter (RVOT Diam)     Right Ventricle Ejection Time (RVET)
		· ·
^77		Right Ventricle Pre-Ejection Period (RVPEP)  Residual Efficience (PE (1))  Residual Efficie
877	System	Pericard Effusion (PE (d))
878	Tricuspid valve	QRS Complex to End of Envelope (Q-TV close)
	Tricuspia vaive	<ul> <li>Tricuspid Annular Plane Systolic Excursion (TAPSE)</li> </ul>

879	Doppler Mode measurements	
1		Aortic Insufficiency Mean Pressure Gradient (AR Trace)
		Aortic Insufficiency Peak Pressure Gradient (AR Vmax)
		Aortic Insufficiency End Diastole Pressure Gradient (AR Trace)
		Aortic Insufficiency Mean Velocity (AR Trace)
		Aortic Insufficiency Velocity Time Integral (AR Trace)
		Aortic Valve Mean Velocity (AV Trace)
880	Aortic valve	
000	AOLIC Valve	Aortic Valve Velocity Time Integral (AV Trace)     Aortic Valve Mean Pressure Gradient (AV Trace)
		Aortic Valve Pleah Pressure Gradient (AV Trace)     Aortic Valve Peak Pressure Gradient (AR Vmax)
		Aortic Insufficiency Peak Velocity (AR Vmax)     Aortic Insufficiency Ford Printed Articles (AR Topse)
		Aortic Insufficiency End-Diastolic Velocity (AR Trace)     Aortic Male Road Male (Al Al Al Anna)
		Aortic Valve Peak Velocity (AV Vmax)
		Aortic Valve Peak Velocity at Point E (AV Vmax)
		Aorta Proximal Coarctation (Coarc Pre-Duct)
		Aorta Distal Coarctation (Coarc Post-Duct)
		Aortic Valve Insufficiency Pressure Half Time (AR PHT)
		Aortic Valve Flow Acceleration (AV Trace)
004	A setional to a setion of	Aortic Valve Pressure Half Time (AV Trace)
881	Aortic valve continued	Aortic Valve Acceleration Time (AV Acc Time)
		Aortic Valve Deceleration Time (AV Dec Time)
		Aortic Valve Ejection Time (AVET)
		Aortic Valve Acceleration to Ejection Time Ratio (AV Acc Time, AVET)
		Aortic Valve Area(VTI): AVA (Vmax)
		Left Ventricle Outflow Tract Peak Pressure Gradient (LVOT Vmax)
		Left Ventricle Outflow Tract Peak Velocity (LVOT Vmax)
		Left Ventricle Outflow Tract Peak Velocity (LVOT Vinax)     Left Ventricle Outflow Tract Mean Pressure Gradient (LVOT Trace)
882	Left ventricle	Left Ventricle Outflow Tract Mean Plessure Gradient (LVOT Trace)     Left Ventricle Outflow Tract Mean Velocity (LVOT Trace)
		* * * * * * * * * * * * * * * * * * * *
		Left Ventricle Outflow Tract Velocity Time Integral (LVOT Trace)     Left Ventricle Ejection Time (LVET)
		• Left Ventricle Ejection Time (LVET)
		• E' Early diastolic mitral valve annular velocity (E')
		• E' Avg Averaged early diastolic mitral valve annular velocity
		(E' Avg)
		• E' Lat Early diastolic mitral valve lateral annular velocity (E' Lat)
		E' Medial Early diastolic mitral valve medial annular velocity
		(E' Medial)
		• E' Sept Early diastolic mitral
883	Mitral valve	Mitral inflow E velocity to E' ratio (E/E')
		Mitral inflow E velocity to E' Avg ratio (E/E' Avg)
		Mitral inflow E velocity to E' Lat ratio (E/E' Lat)
		Medial Mitral inflow E velocity to E' Medial ratio (E/E')
		Mitral inflow E velocity to E' Sept ratio (E/E' Sept)
		Mitral Valve Regurgitant Flow Acceleration (MR Trace)
		Mitral Valve Regurgitant How Acceleration (MR Trace)     Mitral Valve Regurgitant Mean Velocity (MR Trace)
		Mitral Regurgitant Mean Pressure Gradient (MR Trace)
		Mitral Regurgitant Mean Pressure Gradient (MR Trace)     Mitral Regurgitant Velocity Time Integral (MR Trace)
		·
		Mitral Valve Mean Velocity (MV Trace)     Mitral Valve Valority Time Integral (MV Trace)
		Mitral Valve Velocity Time Integral (MV Trace)     Mitral Valve Macon Processing Creations (MV Trace)
00.4	Mitandon London and Control	Mitral Valve Mean Pressure Gradient (MV Trace)  Mitral Responsibility to Proceedings (MV Trace)
884	Mitral valve continued	Mitral Regurgitant Peak Pressure Gradient (MR Vmax)
		Mitral Valve Peak Pressure Gradient (MV Vmax)
		Mitral Regurgitant Peak Velocity (MR Vmax)
		Mitral Valve Peak Velocity (MV Vmax)
		Mitral Valve Velocity Peak A (MV A Velocity)
		Mitral Valve Velocity Peak E (MV E Velocity)

		Mitral Valve Area According to PHT (MV PHT)
		Mitral Valve Flow Deceleration (MV DecT)
		Mitral Valve Pressure Half Time (MV PHT)
		Mitral Valve Flow Acceleration (MV AccT)
		Mitral Valve E-Peak to A-Peak Ratio (A-C and D-E) (MV E/ARatio)
		, , , , , , , , , , , , , , , , , , , ,
		Mitral Valve Acceleration Time
885	Mitral valve continued	• (MV Acc Time)
003	The diverse continued	Mitral Valve Deceleration Time (MV Dec Time)
		Mitral Valve Ejection Time ((MVET)
		Mitral Valve A-Wave Duration (MV A Dur)
		Mitral Valve Time to Peak (MV TTP)
		Mitral Valve Acceleration Time/Deceleration Time Ratio
		·
		(MVAcc/Dec Time)
		Stroke Volume Index by Mitral Flow (MVA Planimetry, MVTrace)
		Pulmonic Insufficiency Peak Pressure Gradient (PR Vmax)
		Pulmonic Insufficiency End-Diastolic Pressure Gradient (PRTrace)
		Pulmonic Valve Peak Pressure Gradient (PV Vmax)
		·
886	Pulmonic Valve	Pulmonic Insufficiency Peak Velocity (PR Vmax)
		Pulmonic Insufficiency End-Diastolic Velocity (Prend Vmax)
		Pulmonic Valve Peak Velocity (PV Vmax)
		Pulmonary Artery Diastolic Pressure (PV Trace)
		Pulmonic Insufficiency Mean Pressure Gradient (PR Trace)
		Pulmonic Valve Mean Pressure Gradient (PV Trace)
		Pulmonic Insufficiency Mean Square Root Velocity (PR Trace)
		Pulmonic Insufficiency Velocity Time Integral (PR Trace)
		Pulmonic Valve Mean Velocity (PV Trace)
		Pulmonic Valve Velocity Time Integral (PV Trace)
		Pulmonic Insufficiency Pressure Half Time (PR PHT)
887	Pulmonic valve continued	Pulmonic Valve Flow Acceleration (PV Acc Time)
		Pulmonic Valve Acceleration Time (PV Acc Time)
		· · · · · · · · · · · · · · · · · · ·
		Pulmonic Valve Ejection Time (PVET)
		QRS Complex to End of Envelope (Q-to-PV Close)
		Pulmonic Valve Acceleration to Ejection TIme Ratio
		(PV Acc Time, PVET)
		Right Ventricle Outflow Tract Peak Pressure Gradient
		(RVOT Vmax)
		Right Ventricle Outflow Tract Peak Velocity (RVOT Vmax)
000	Pi-la	Right Ventricle Outflow Tract Velocity Time Integral (RVOTTrace)
888	Right ventricle	Right Ventricle Ejection Time (RV Trace)
		Stroke Volume by Pulmonic Flow (RVOT Planimetry, RVOTTrace)
		Right Ventricle Stroke Volume Index by Pulmonic Flow
		(RVOT Planimetry, RVOT Trace)
-		Pulmonary Artery Peak Velocity (PV Vmax)
		Pulmonary Vein Velocity Peak A (Reverse) (P Vein A)
		• Pulmonary Vein Velocity Feak A (Neverse) (F Vein A)
		Systemic Vein Peak Velocity (PDA Diastolic, PDA Systolic)
		Ventricular Septal Defect Peak Velocity (VSD Vmax)
889	System	Atrial Septal Defect (ASD Diastolic, ASD Systolic)
003		Pulmonary Vein A-Wave Duration (P Vein A Dur)
		IsoVolumetric Relaxation Time (IVRT)
		IsoVolumetric Contraction Time (IVCT)
		Pulmonary Vein S/D Ratio (P Vein D, P Vein S)
		Ventricular Septal Defect Peak Pressure Gradient (VSD Vmax)
		Ventricular Septal Defect Peak Pressure Gradient (VSD Vmax)     Pulmonic-to-Systemic Flow Ratio (Qp/Qs)
		Tricuspid Regurgitant Peak Pressure Gradient (TR Vmax)
		Tricuspid Regurgitant Peak Pressure Gradient (TR Vmax)     Tricuspid Valve Peak Pressure Gradient (TV Vmax)
		Tricuspid Valve Peak Pressure Gradient (TV Vmax)     Tricuspid Regurgitant Peak Velocity (TR Vmax)
		Tricuspid Valve Peak Velocity (TV Vmax)
890	Tricuspid valve	· ·
1		Tricuspid Valve Velocity Peak A (TV A Velocity)
		Tricuspid Valve Velocity Peak E (TV E Velocity)
		Tricuspid Valve Velocity Peak E (TV E Velocity) Tricuspid Regurgitant Mean Pressure Gradient (TR Trace) Tricuspid Valve Mean Pressure Gradient (TV Trace)

		Tricuspid Regurgitant Mean Velocity (TR Trace)
		Tricuspid Regurgitant Velocity Time Integral (TR Trace)
		Tricuspid Valve Mean Velocity (TV Trace)
		Tricuspid Valve Velocity Time Integral (TV Trace)
		Tricuspid Valve Time to Peak (TV TTP)
891	Tricuspid valve continued	Tricuspid Valve Ejection Time (TV Acc/Dec Time)
		Tricuspid Valve A-Wave Duration (TV A Dur)
		QRS Complex to End of Envelope (Q-TV Close)
		Tricuspid Valve Pressure Half Time (TV PHT)
		Stroke Volume by Tricuspid Flow (TV Planimetry, TV Trace)
		Tricuspid Valve E-Peak to A-Peak Ratio (TV E/A Velocity)

892	Color Flow Mode measurements	
OJL		Proximal Isovelocity Surface Area:
893	Aortic valve	Regurgitant Orifice Area (AR Radius)
		Proximal Isovelocity Surface Area:
		Radius of Aliased Point (AR Radius)
		Proximal Isovelocity Surface Area:
		Regurgitant Flow (AR Trace)
		Proximal Isovelocity Surface Area:
		Regurgitant Volume Flow (AR Trace)
		Proximal Isovelocity Surface Area:
		Aliased Velocity (AR Vmax)
		Proximal Isovelocity Surface Area:
	Mitral valve	Regurgitant Orifice Area (MR Radius)
		Proximal Isovelocity Surface Area:
		Radius of Aliased Point (MR Radius)
		Proximal Isovelocity Surface Area:
894		Regurgitant Flow (MR Trace)
		Proximal Isovelocity Surface Area:
		Regurgitant Volume Flow (MR Trace)
		Proximal Isovelocity Surface Area:
		Aliased Velocity (MR Vmax)
90E	Combination Mode measurements	Allased velocity (MR VIIIax)
895	Combination Proue measurements	Aortic Valve Area (Ao Root Diam, LVOT Vmax, AV Vmax)
		· · · · · · · · · · · · · · · · · · ·
		Aortic Valve Area by Continuity Equation by Peak Velocity     (Ao Root Diam, LVOT Vmax, AV Vmax)
006	A south of the second of the s	
896	Aortic valve	Stroke Volume by Aortic Flow (AVA Planimetry, AV Trace)
		Cardiac Output by Aortic Flow (AVA Planimetry, AV Trace, HR)
		Aortic Valve Area by Continuity Equation VTI
		(Ao Root Diam, LVOT Vmax, AV Trace)
		Cardiac Output, Teichholz/Cubic (LVIDd, LVI Ds, HR)
		Cardiac Output Two Chamber, Single Plane,
	Left ventricle	Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)
		Cardiac Output Four Chamber, Single Plane,
		Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)
897		• Ejection Fraction Two Chamber, Single Plane,
		Area-Length/Method of Disk (Simpson) (LVAd, LVAs)
		Ejection Fraction Four Chamber, Single
		Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs)
		<ul> <li>Left Ventricle Stroke Volume, Single Plane,</li> </ul>
		Two Chamber/Four Chamber, Area-Length (LVAd, LVAs)
		Left Ventricle Stroke Volume, Single Plane,
		Two Chamber/Four Chamber, Method of Disk (Simpson)
		(LVIDd, LVIDs, LVAd, LVAs)
		• Left Ventricle Volume, Two Chamber/Four Chamber,
		Area-Length (LVAd, LVAs)
		• Ejection Fraction, Bi-Plane,
		Method of Disk (LVAd, LVAs, 2CH, 4CH)  • Left Ventricle Stroke Volume, Bi-Plane,
000	I afternamental a sametime and	
898	Left ventricle continued	Method of Disk (LVAd, LVAs, 2CH, 4CH)
		Left Ventricle Volume, Bi-Plane,  And the def Disk (NYA de NYA e 2001)
		Method of Disk (LVAd, LVAs, 2CH, 4CH)
		• Left Ventricle Stroke Index, Single Plane,
		Two Chamber/Four Chamber, Area-Length (LVSd, LVSs and BSA)
		• Left Ventricle Volume, Single Plane,
		Two Chamber/Four Chamber, Method of Disk (LVAd, LVAs)
		Left Ventricle Volume, Apical View,
		Long Axis, Method of Disk (LVAd, LVAs)
		Stroke Volume by Mitral Flow (MVA Planimetry, MV Trace)
899	Mitral valve	Cardiac Output by Mitral Flow (MVA Planimetry, MV Trace, HR)
		Stroke Volume by Pulmonic Flow (PV Planimetry, PV Trace)
900	Pulmonic valve	Cardiac Output by Pulmonic Flow (PV Planimetry, PV Trace, HR)
901	Tricuspid valve	Cardiac Output by Full Holling Flow (FV Planimetry, FV Trace, HR)     Cardiac Output by Tricuspid Flow (TV Planimetry, TV Trace, HR)
902	Combination Mode measurements	Tournate Output by medaplic flow (1 v Flamilletty, 1 v Hace, flix)
903	Parameter: lists the mode, the measurement folder and the specific measureme	nt
500	. 2. 2 2507 note the mode, the measurement lorder and the specific measureme	

904	Measured Value: Up to six measurement values for each item. Average, maximum, minimum or last	
905	Generic study in cardiology	
906	Stroke Volume (SV)	
907	Cardiac Output (CO)	



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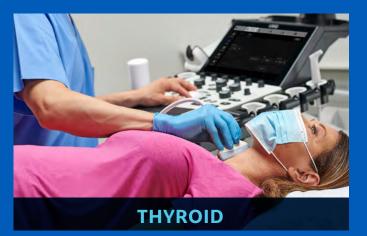
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LOGIQ Fortis Overview

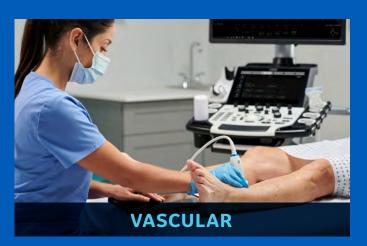






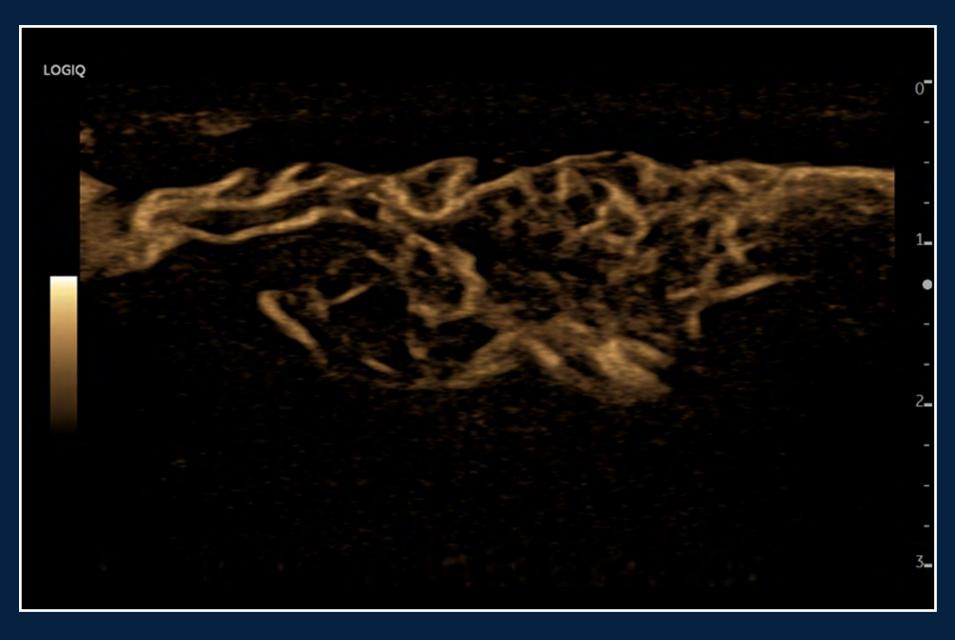






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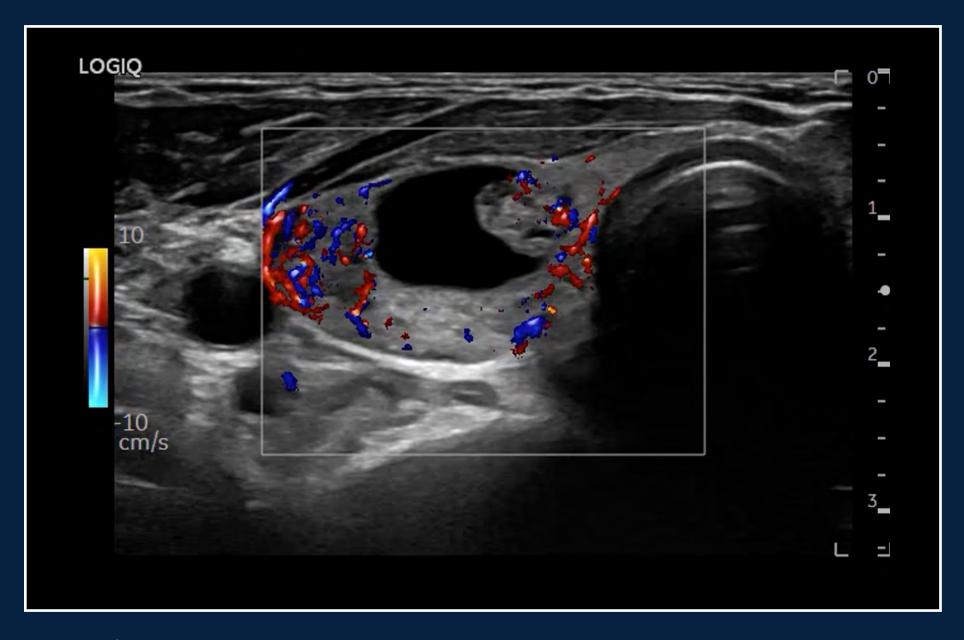
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## CLINICAL IMAGES | Head & Neck





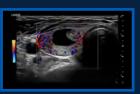


# CLINICAL IMAGES | Head & Neck

Exceeding your expectations: whole body imaging



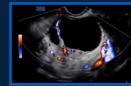


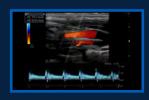


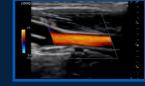








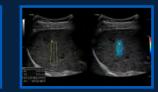






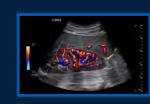


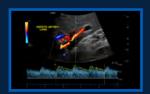














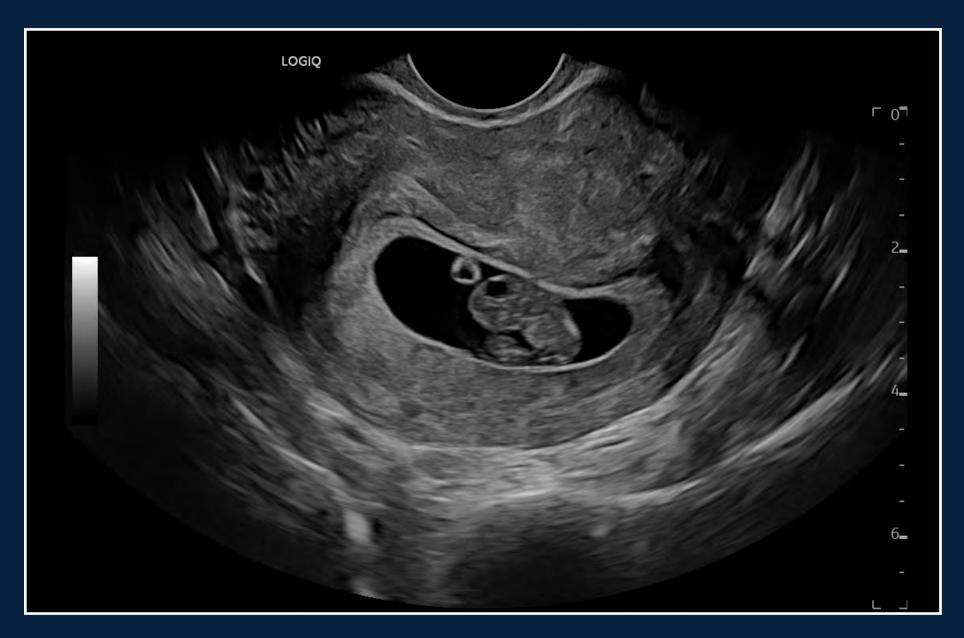


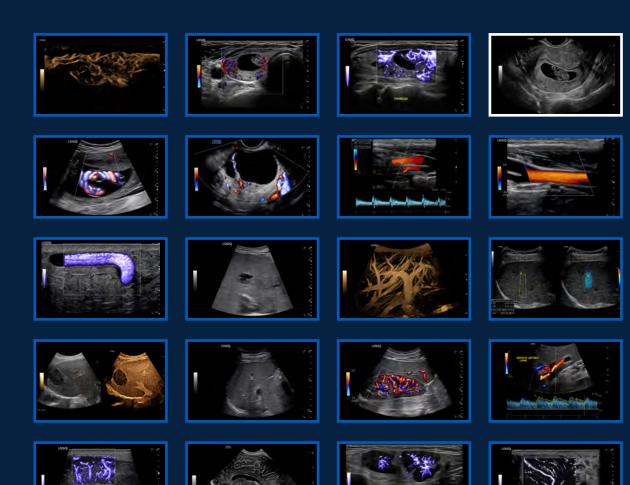




MVI with Radiant flow in Thyroid, ML6-15-D

#### CLINICAL IMAGES | OB/GYN



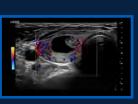




#### CLINICAL IMAGES | OB/GYN



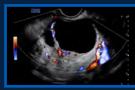


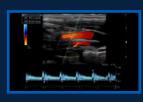


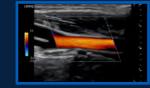








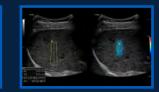








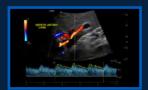




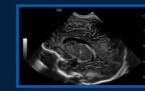










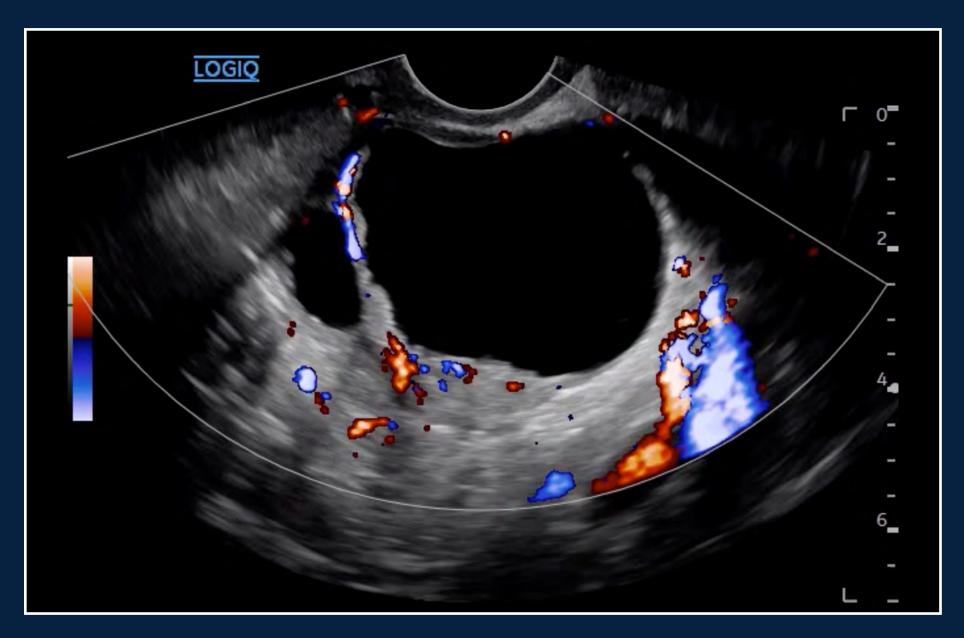


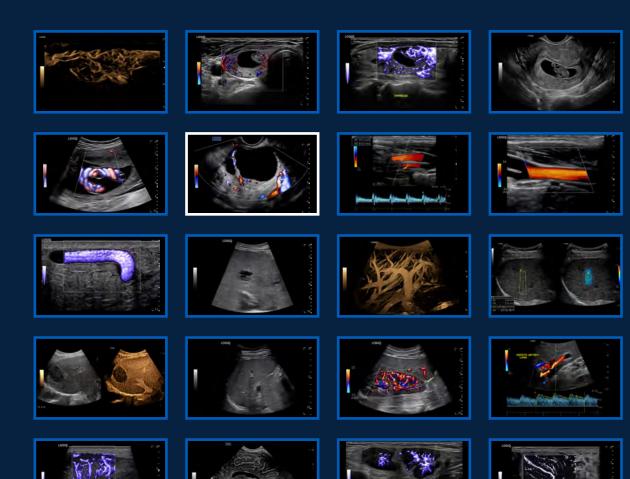






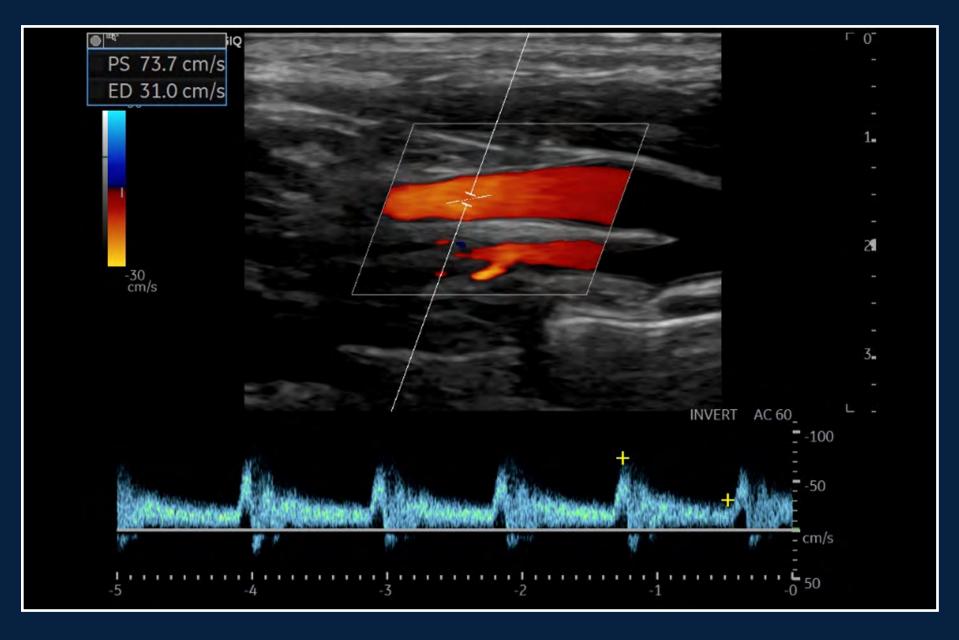
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PDI of Ovary, IC5-9-D

#### **CLINICAL IMAGES** | Vascular





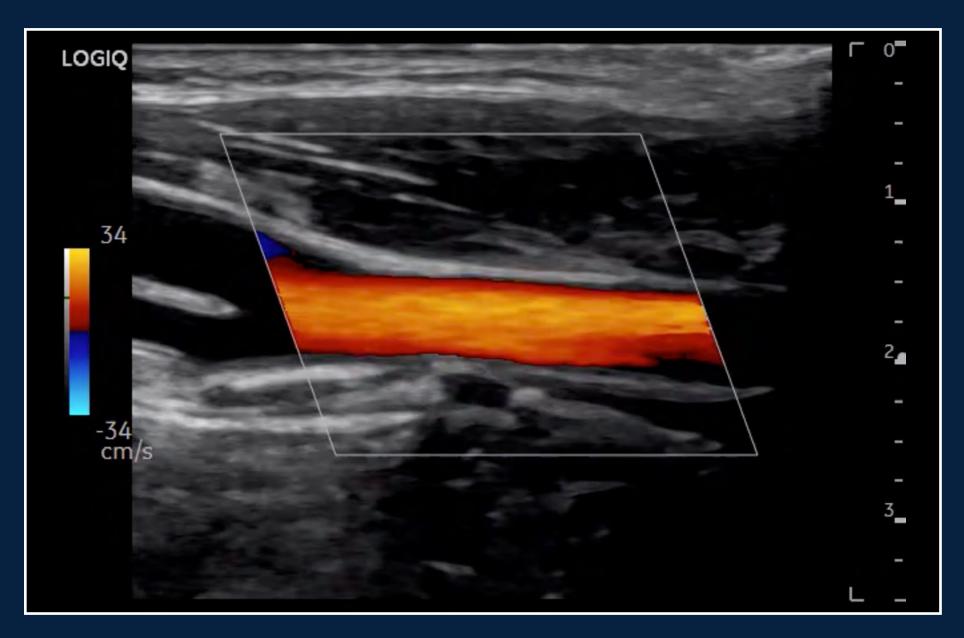


#### **CLINICAL IMAGES** | Vascular

Exceeding your expectations: whole body imaging

**MULTI-PURPOSE/** 

**RADIOLOGY** 



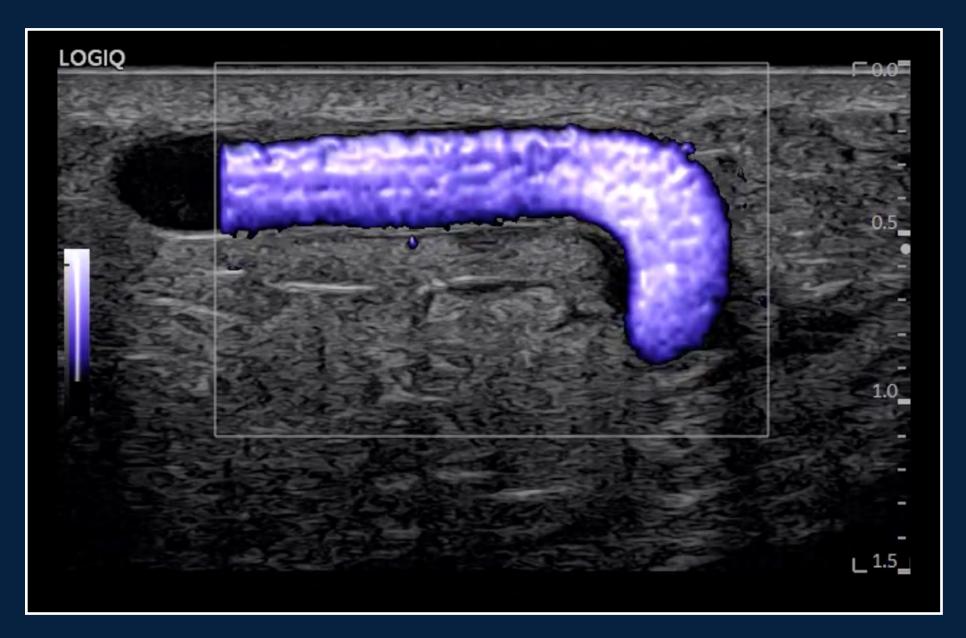




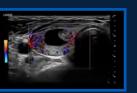
#### **CLINICAL IMAGES** | Vascular

Exceeding your expectations: whole body imaging

**MULTI-PURPOSE/** 



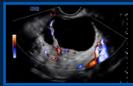


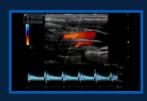










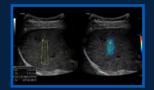










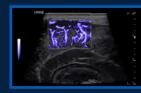






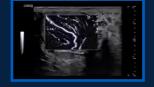












MVI Superficial Vein, L6-24-D

Exceeding your expectations: whole body imaging

**MULTI-PURPOSE/** 

**RADIOLOGY** 





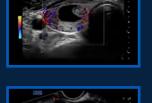


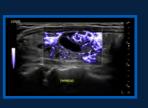
Exceeding your expectations: whole body imaging

**RADIOLOGY** 



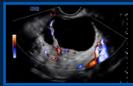


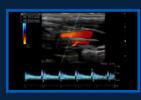


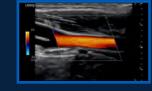










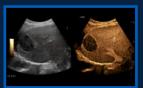






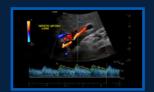






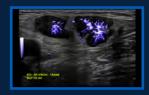


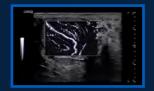




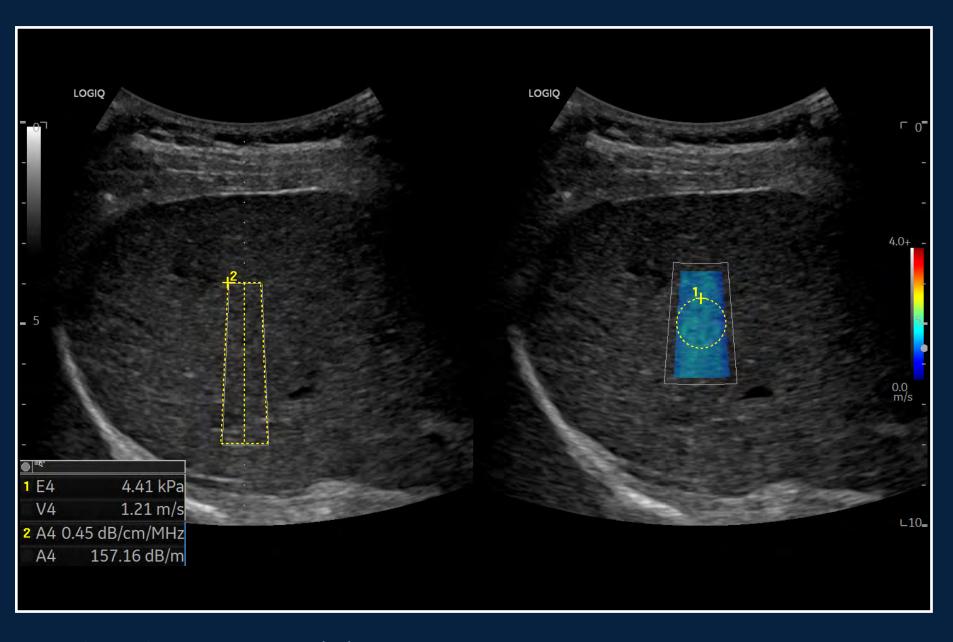






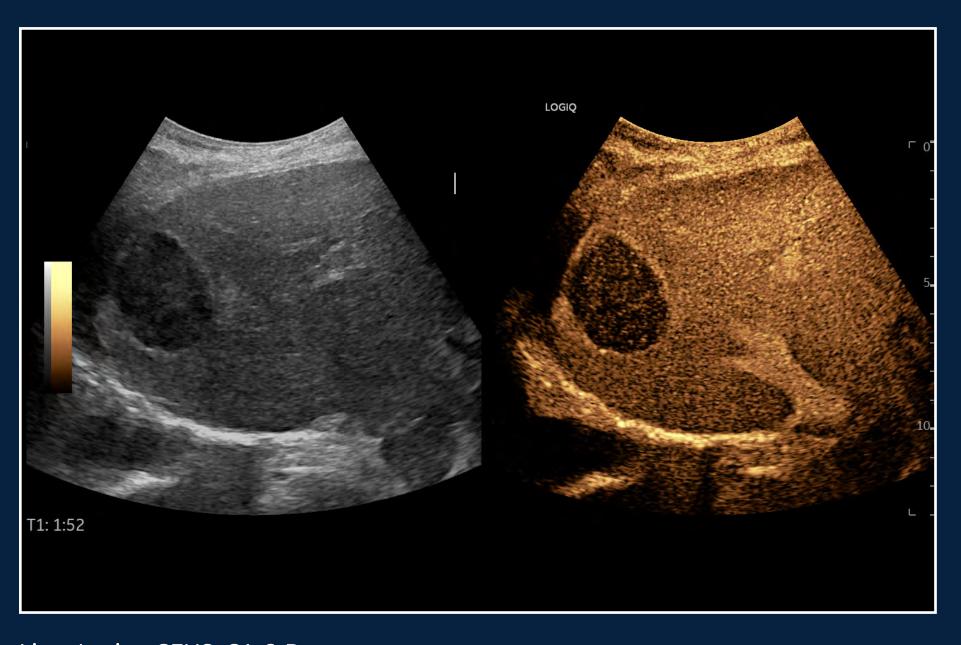


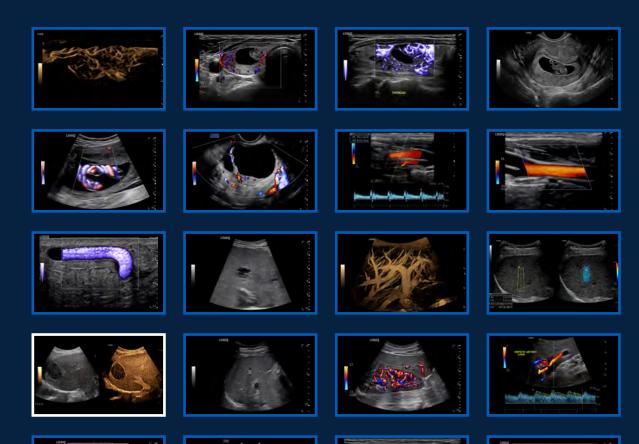
Liver B-Flow Cine Capture, C2-9-D













# CLINICAL IMAGES | Spleen

Exceeding your expectations: whole body imaging

**MULTI-PURPOSE/** 







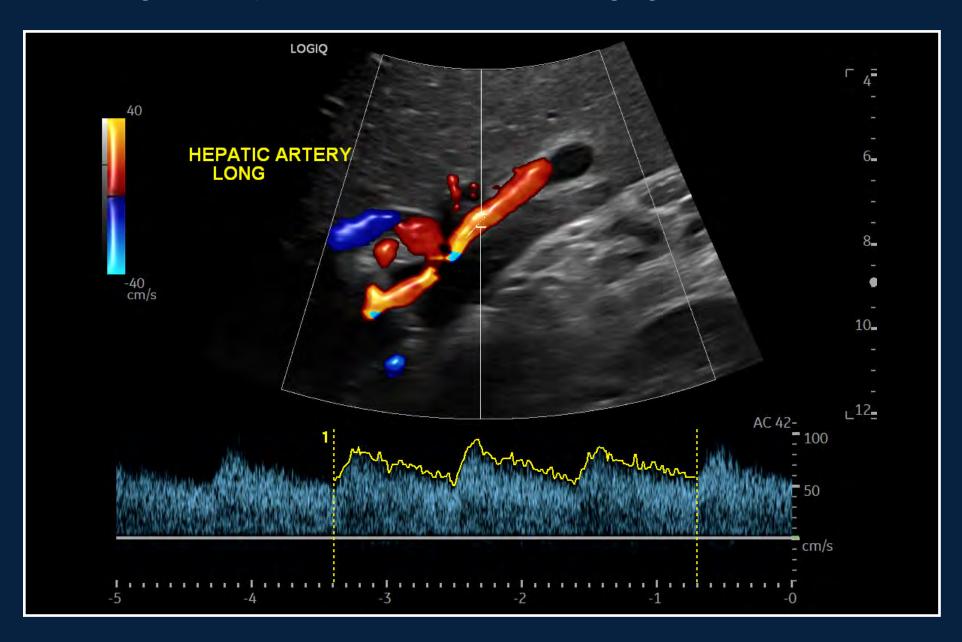
## **CLINICAL IMAGES** | Kidney







#### **CLINICAL IMAGES** | Pediatrics

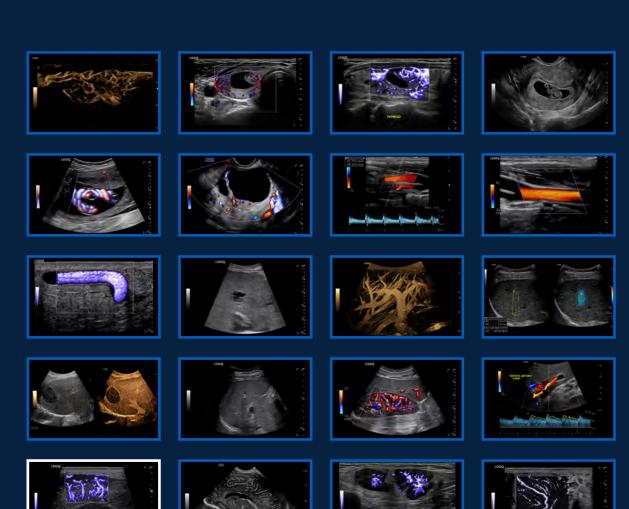




cSound B-Mode CF with Radiant flow and PW Doppler, C1-6-D

#### **CLINICAL IMAGES** | Pediatrics





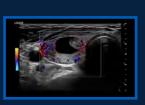


#### **CLINICAL IMAGES** | Pediatrics

Exceeding your expectations: whole body imaging



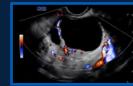


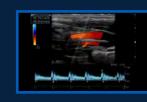


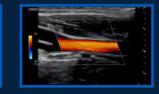








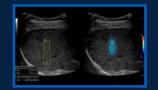


























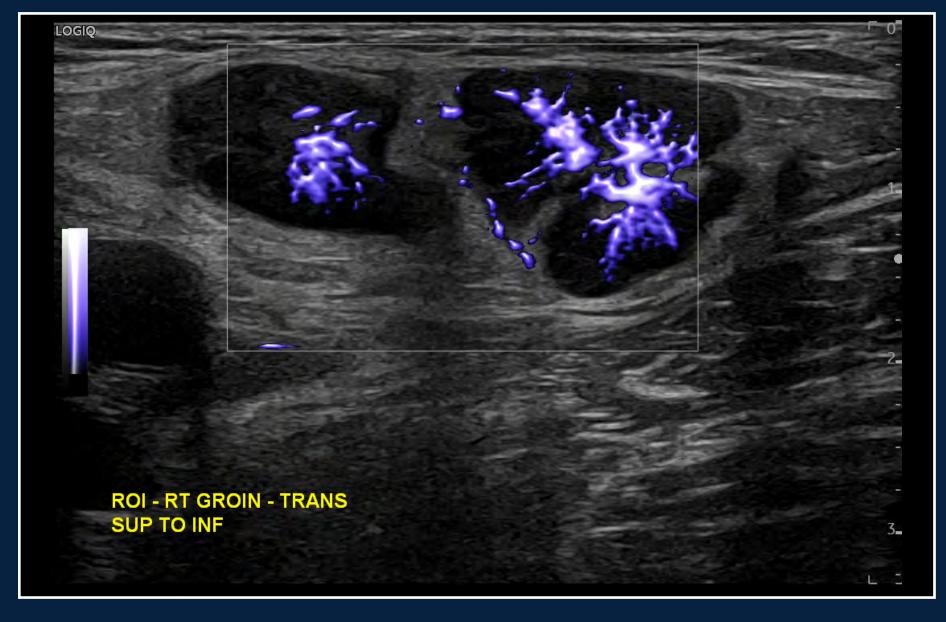


Neonatal head, C3-10-D

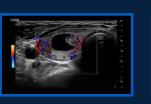
## CLINICAL IMAGES | Small Parts

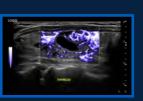
**RADIOLOGY** 

Exceeding your expectations: whole body imaging





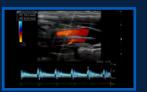


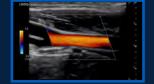








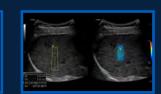








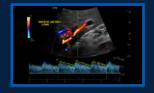




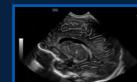
















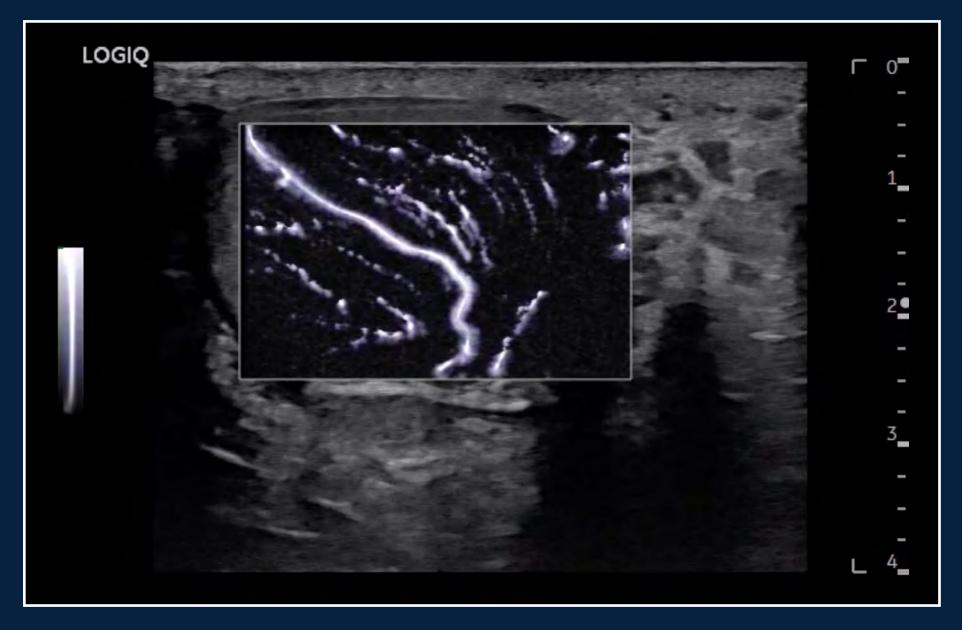
MVI with Radiant flow groin lymph node, ML6-15-D

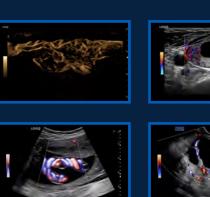
#### **CLINICAL IMAGES** | Small Parts

**MULTI-PURPOSE/** 

**RADIOLOGY** 

Exceeding your expectations: whole body imaging



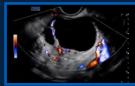


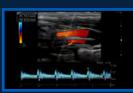










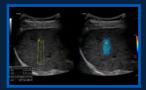






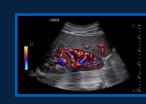


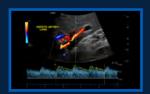




















MVI with Radiant flow in scrotal, L3-12-D

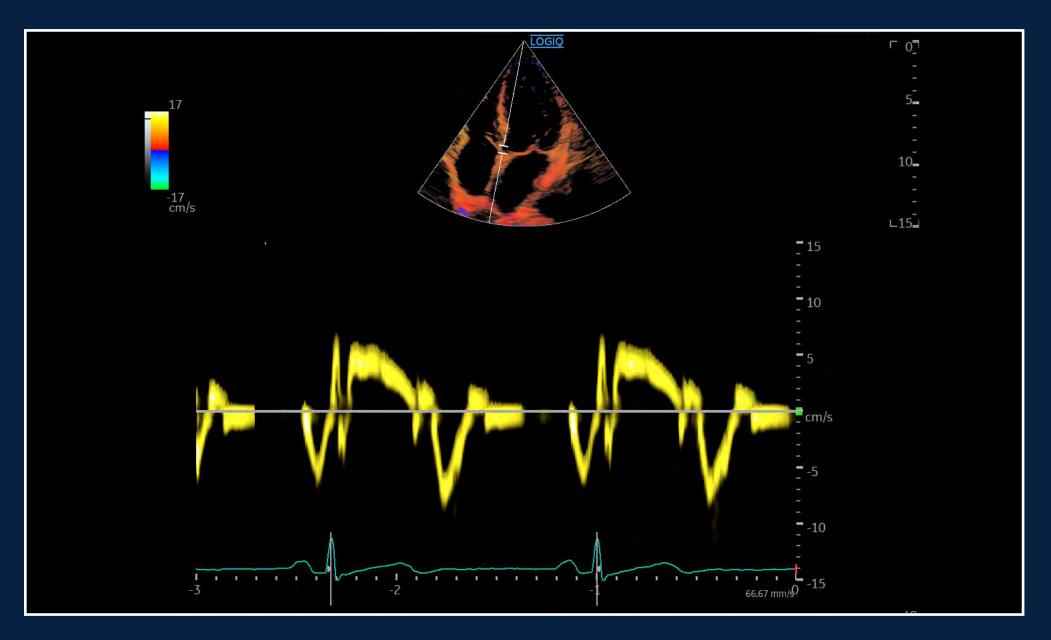
#### **CARDIOLOGY**

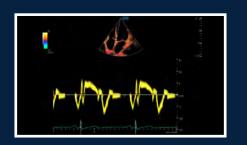
LOGIQ Fortis delivers superb image quality within fast scan times across a wide range of cardiac exams.

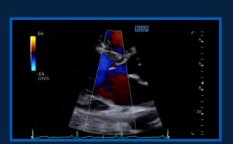
- cSound Architecture with advanced SRI for precise details
- Cardiac Strain assists in early identification of underlying cardiac disease
- Contrast agent imaging with high contrast sensitivity
- TVI/TVD to help assess tissue velocities

+ CLINICAL IMAGES



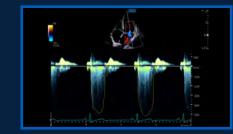


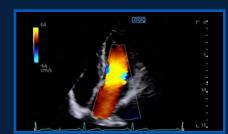




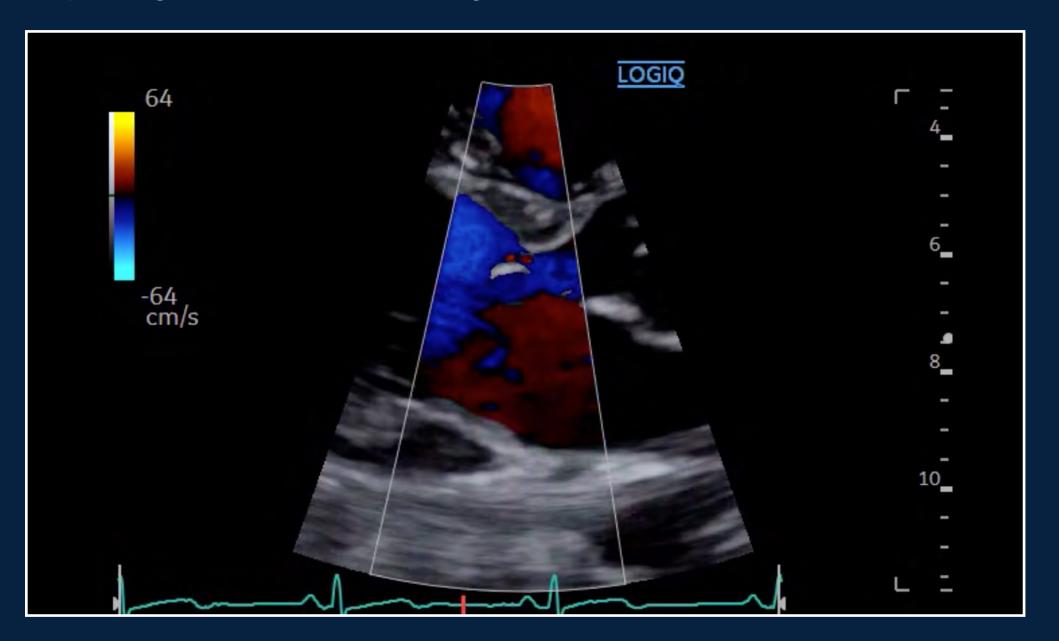


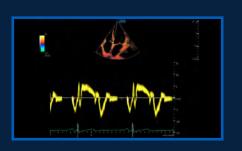






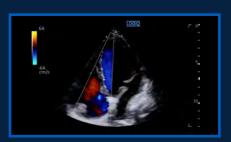
TVI and TVD Apical 4 Chamber View, M5Sc-D

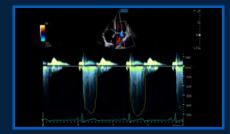


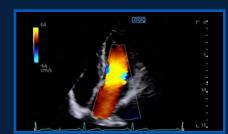




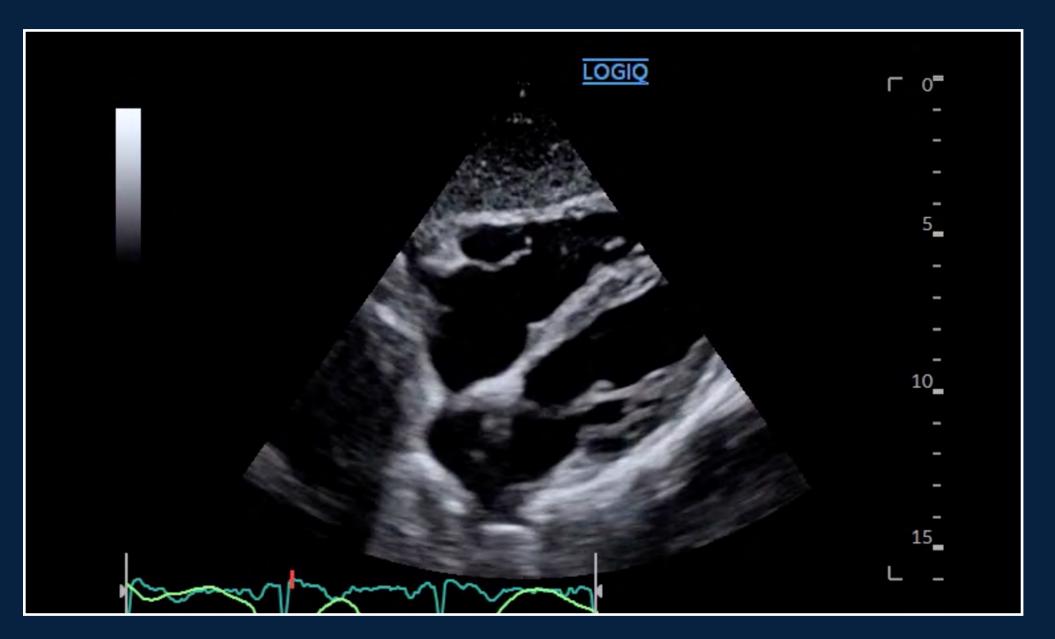


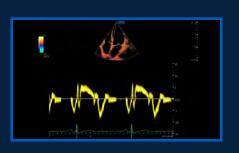








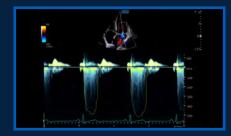


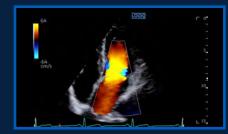






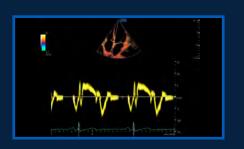


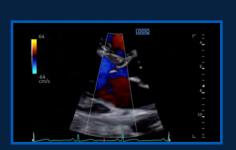






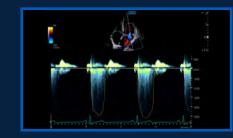


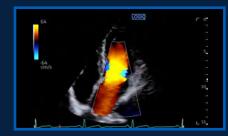




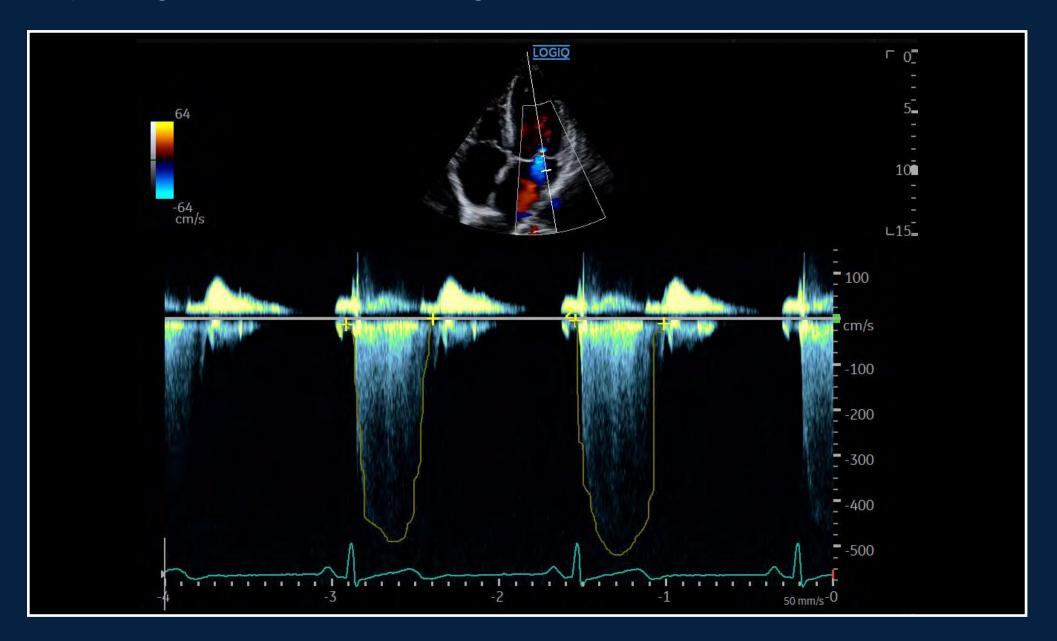


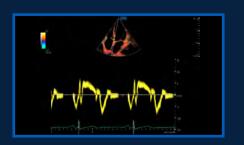


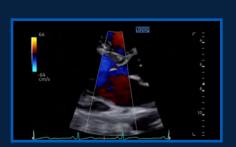






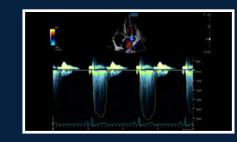


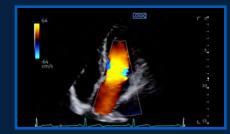




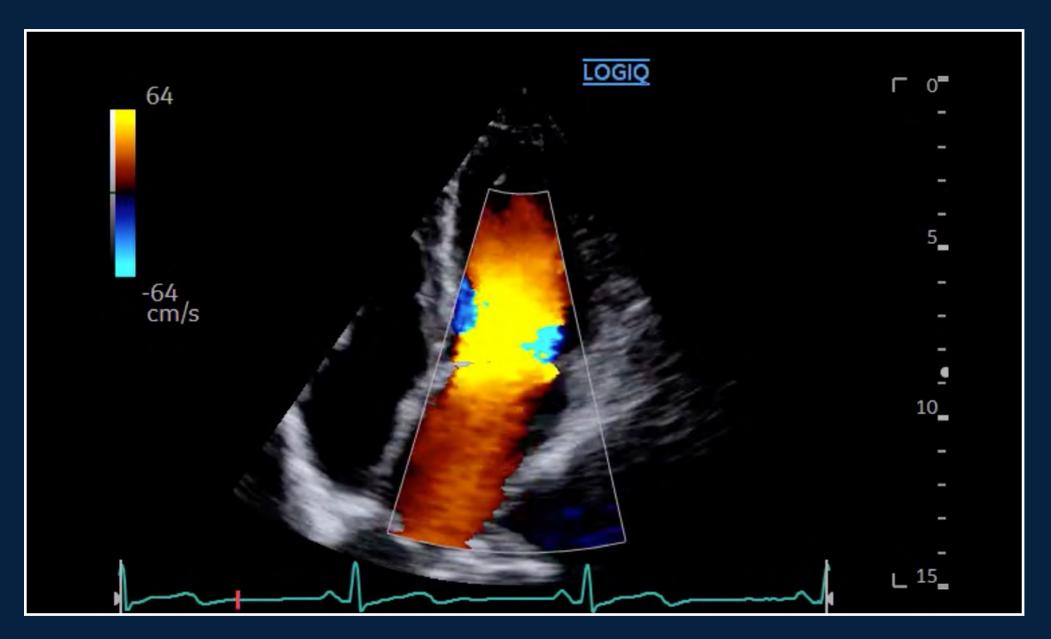


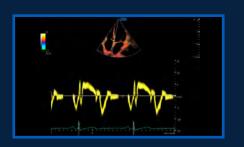


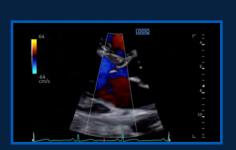






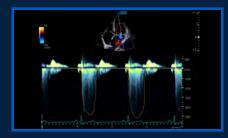


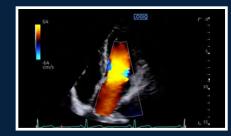












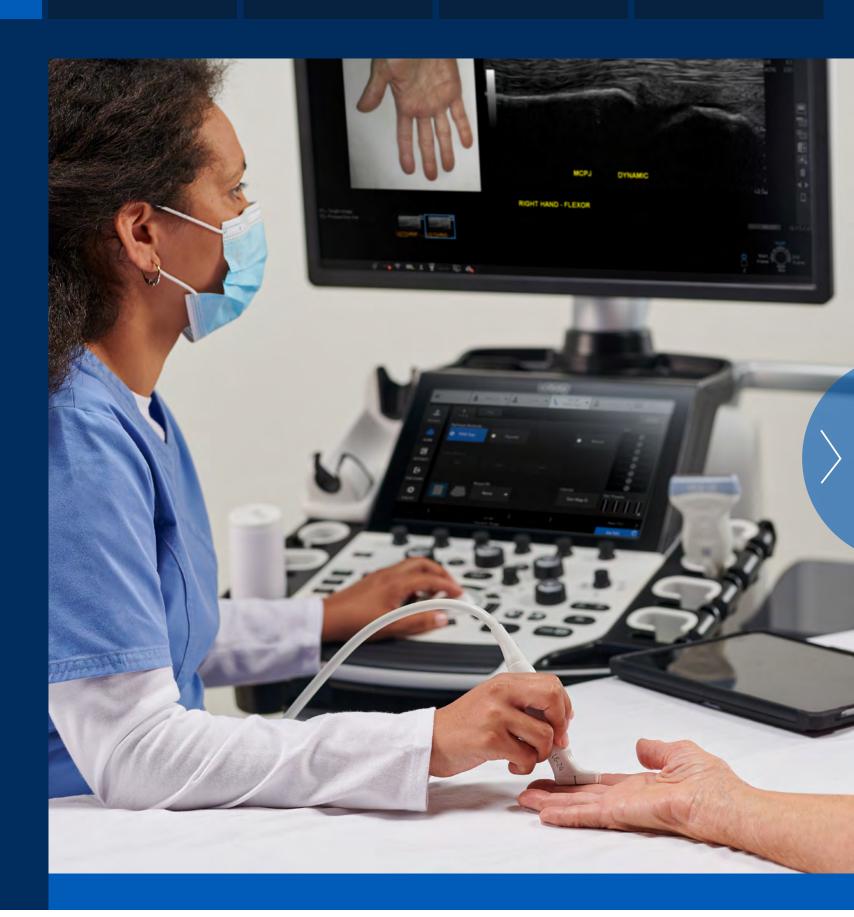
Color Flow Apical 4 Chamber View Mitral Valve, M5Sc-D

#### **MUSCULOSKELETAL**

With precise, efficient imaging, LOGIQ Fortis assists clinicians in managing a wide range of musculoskeletal conditions and a high volume of patients.

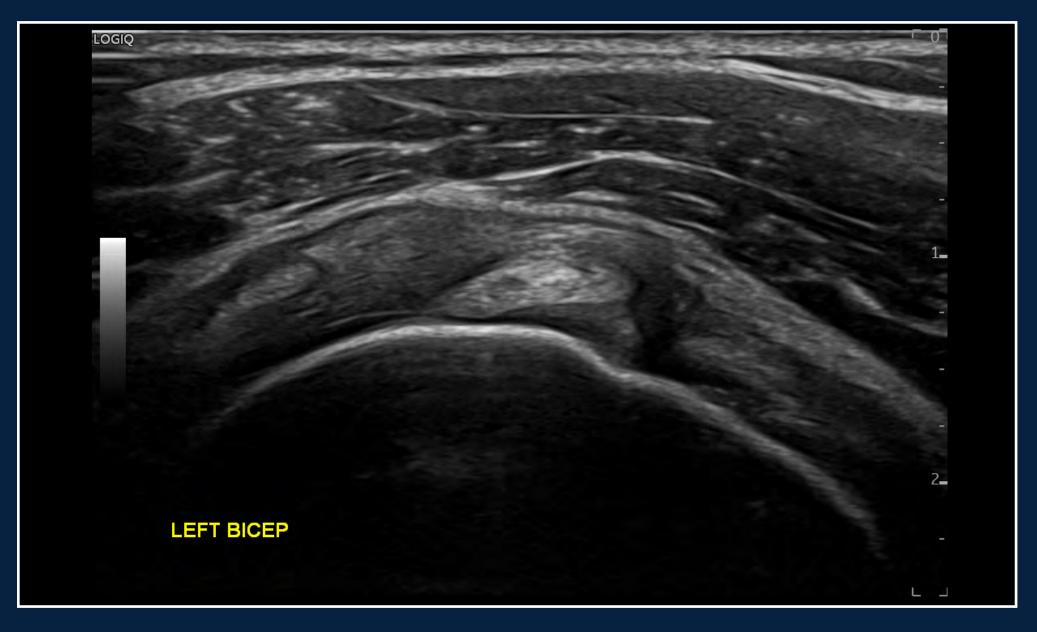
- Micro Vascular Imaging (MVI) and Radiant flow combine to enable near-3D visualization of tiny, slow-flow vessels
- 2D Shear Wave Elastography available on multiple probes
- Photo Assistant App lets you acquire and send photos of relevant anatomy from an Android™ device

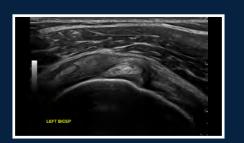
+ CLINICAL IMAGES

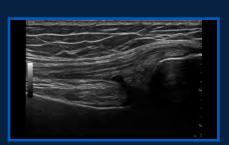




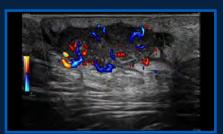
Excellent detail and contrast resolution to support in-depth understanding of tissue, pathology, blood flow, and inflammation









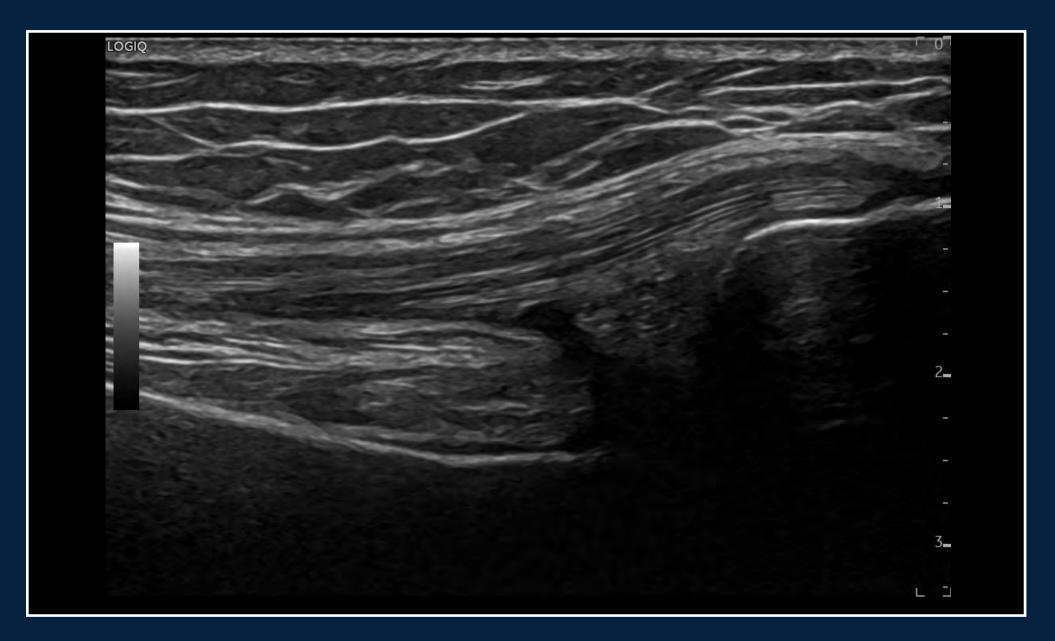


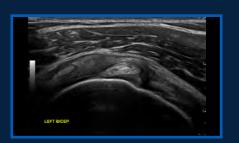
B-Mode with Advanced SRI Shoulder, ML6-15-D

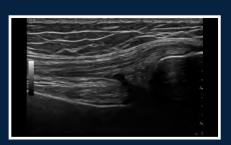
**RADIOLOGY** 



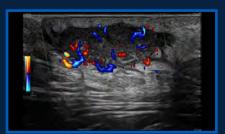
Excellent detail and contrast resolution to support in-depth understanding of tissue, pathology, blood flow, and inflammation







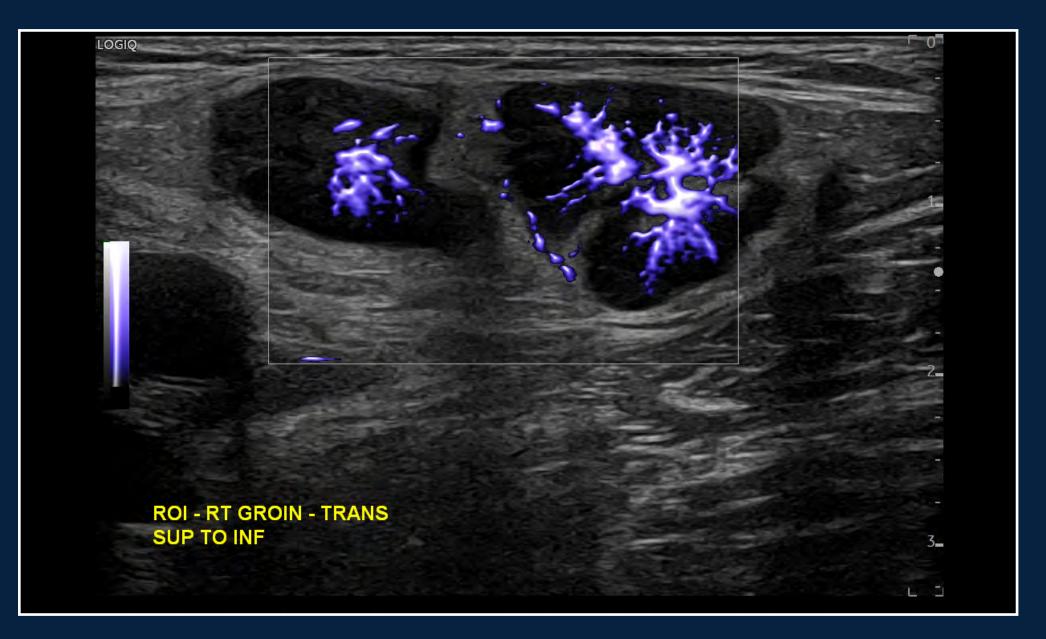


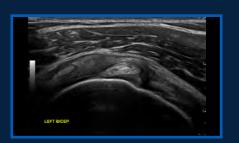


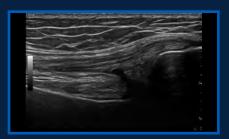
B-Mode with Advanced SRI Knee Tendon, ML6-15-D



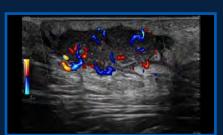
Excellent detail and contrast resolution to support in-depth understanding of tissue, pathology, blood flow, and inflammation







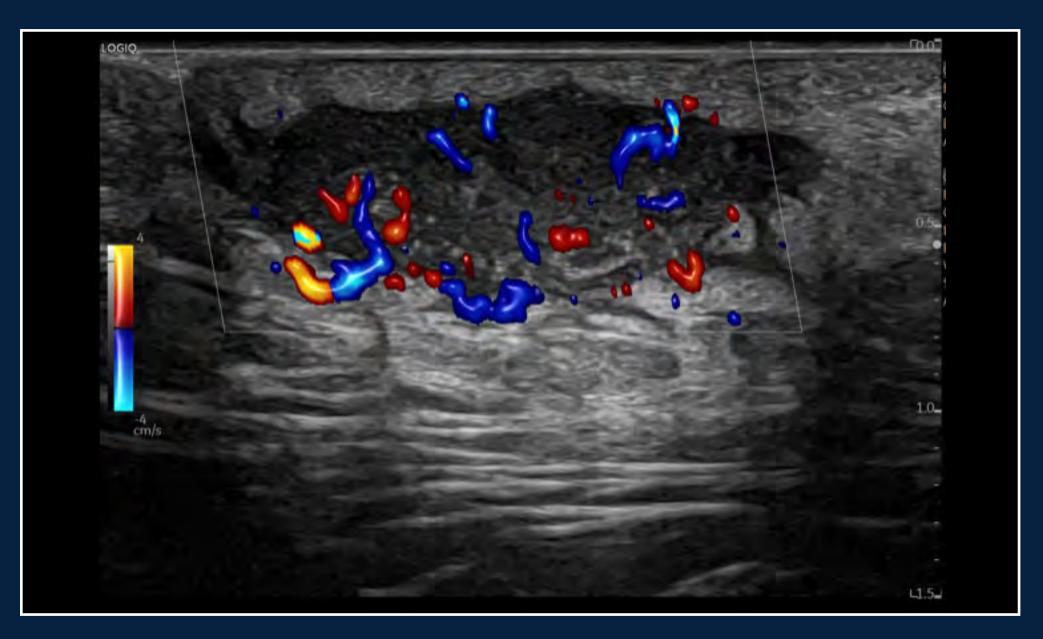


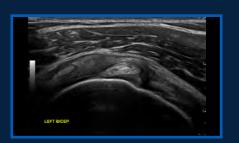


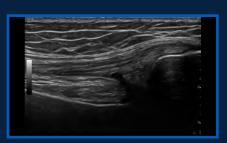
MVI with Radiant flow Groin Lymph Node, ML6-15-D



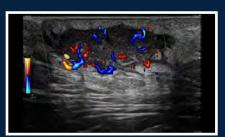
Excellent detail and contrast resolution to support in-depth understanding of tissue, pathology, blood flow, and inflammation











Leg Mass with Color Flow and Radiant flow, L6-24-D

## **BREAST**

LOGIQ Fortis provides high-quality images and robust tools to help clinicians detect and characterize breast disease as efficiently as possible.

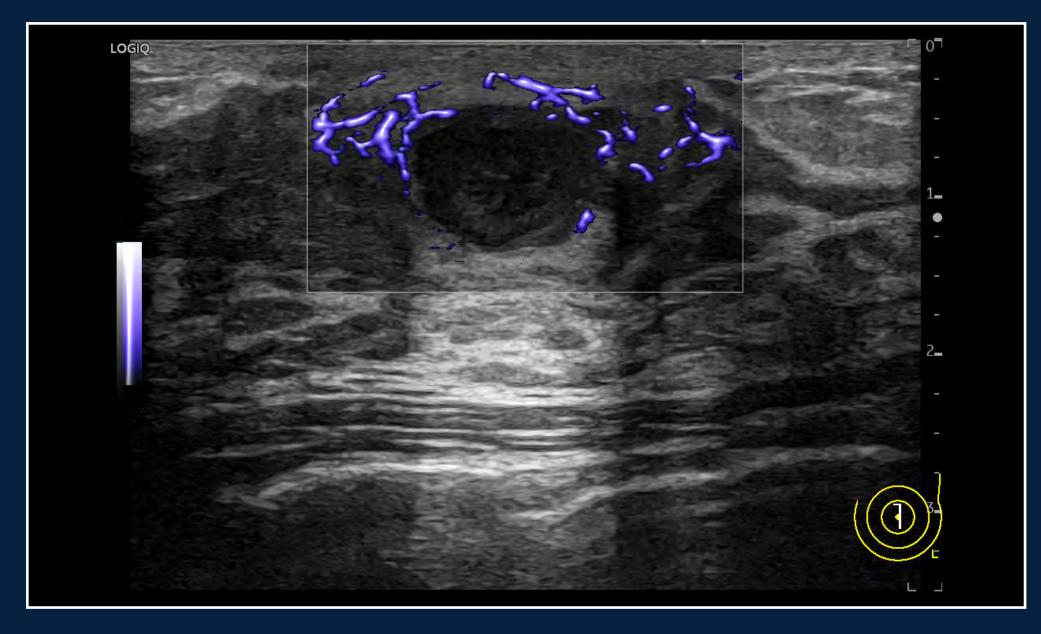
- 2D Shear Wave Elastography with Quality Indicator
- Automated workflow tools, including Measure Assistant and Compare Assistant
- Breast Assistant, powered by Koios DS,<sup>™</sup> an AI-based decision support tool providing quantitative risk assessment aligned to a BI-RADS<sup>®</sup> category<sup>\*</sup>

+ CLINICAL IMAGES

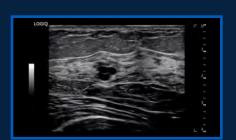


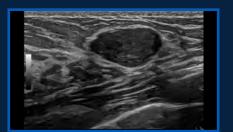
#### **CLINICAL IMAGES** | Breast

Highly detailed images to detect and characterize breast disease efficiently





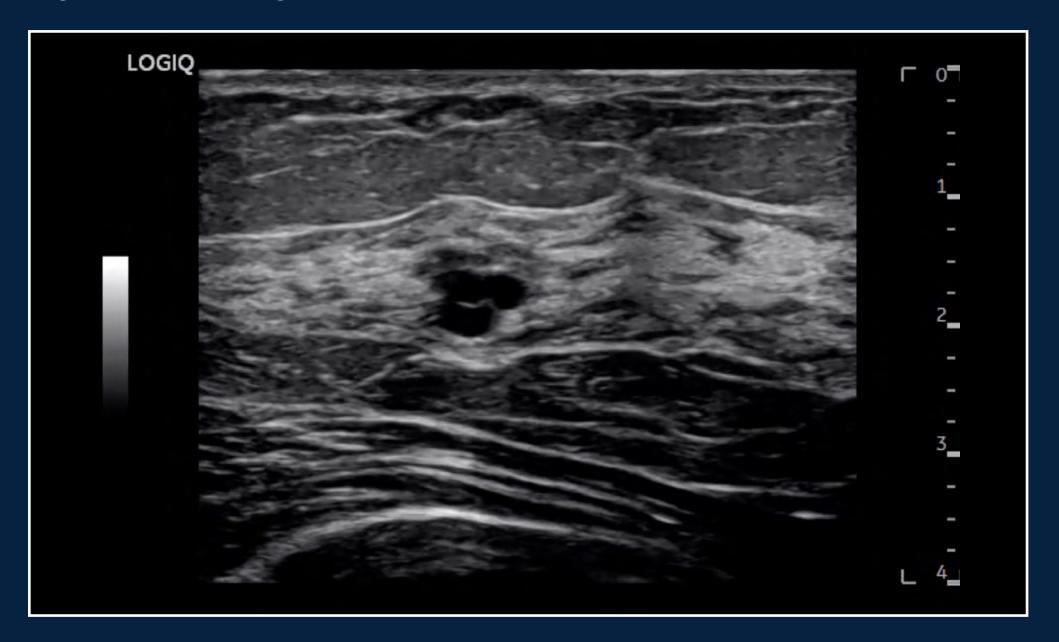


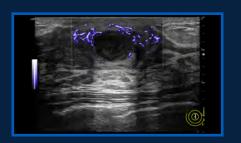


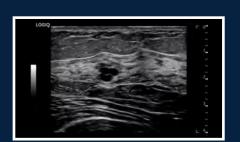


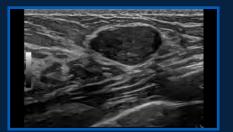
#### **CLINICAL IMAGES** | Breast

Highly detailed images to detect and characterize breast disease efficiently





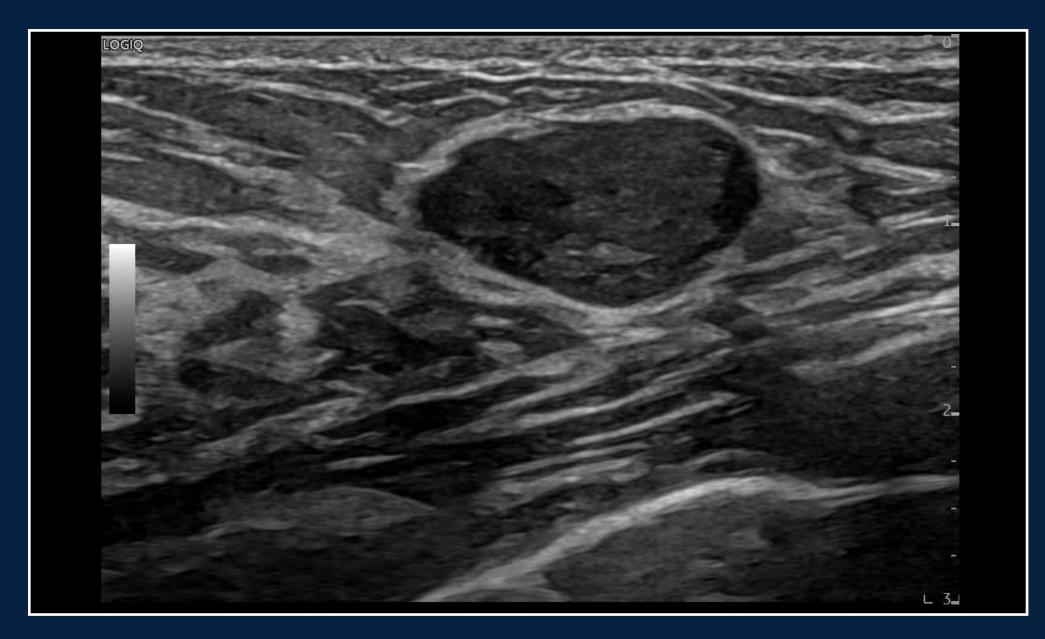


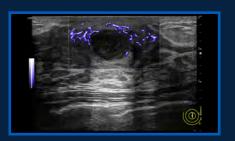


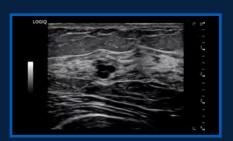
B-Mode with Advanced SRI in Breast, L3-12-D

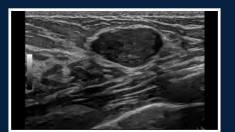
### CLINICAL IMAGES | Breast

Highly detailed images to detect and characterize breast disease efficiently









B-Mode with Advanced SRI in Breast, ML6-15-D



## **OPTIMIZING YOUR PRODUCTIVITY**

LOGIQ Fortis is powerfully streamlined to help clinicians optimize workflow, ensure accurate results, and enhance clinical confidence.

- New EZ Imaging with customizable probe presets, simplified touch panel to reduce operator interactions, and quick patient set-up
- Al-based and automated tools to speed up workflow
- Easy system maneuverability with Scan on Battery



COVID-19 Support

Systems Cleaning Compatibility

Transducers Cleaning Compatibility

LOGIQ Club





### **MAXIMIZING YOUR** INVESTMENT

From radiology to cardiology, the multi-purpose LOGIQ Fortis is easily scaled to your needs, so you can avoid acquiring multiple ultrasound systems for different requirements.

- A to A digital platform lets you add next-generation capabilities to stay at the forefront of ultrasound
- Lifecycle solutions—from InSite<sup>™</sup> remote support to iCenter<sup>™</sup> performance analytics—help optimize asset performance and utilization
- SonoDefense multi-layer cybersecurity and data privacy protection guards your investment 24/7





## **LOGIQ Fortis**

A powerful, streamlined ultrasound solution that's always ready, always by your side.

For more information, visit the **LOGIQ Digital Experience**.

\* Not all products or features are available in all geographies.

Check with your local GE Healthcare representative for availability in your country.

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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January 2022 JB18811XX





# LOGIQ Fortis™

A powerfully streamlined, next-generation ultrasound solution





#### Introducing GE LOGIQ Fortis the next generation of LOGIQ ultrasound technology.

LOGIQ Fortis—the LOGIQ platform's newest member—provides a multi-purpose, all-in-one, ultra-secure ultrasound solution that can be easily scaled to fit your specific needs.





LOGIQ Fortis is characterized by both its **strength** and its **power**. It gives you the power to enhance your clinical capabilities and increase productivity exponentially.

#### **Everything you expect in a LOGIQ system**—powerfully streamlined

With a sleek and compact design, LOGIQ Fortis can be used in almost any space. Its state-of-the-art features and technologies make it strong enough to conduct a full spectrum of ultrasound exams and procedures on any body type. It was specifically designed to optimize clinicians' productivity, exceed expectations regarding performance, and to maximize your investment.

#### Clinical Expectations: **EXCEEDED**

With LOGIQ Fortis, you'll find that any expectations you might have regarding an all-in-one, high-performing ultrasound system aren't just met. They're exceeded. If your facility needs a powerful and scalable ultrasound solution, LOGIQ Fortis is the answer.

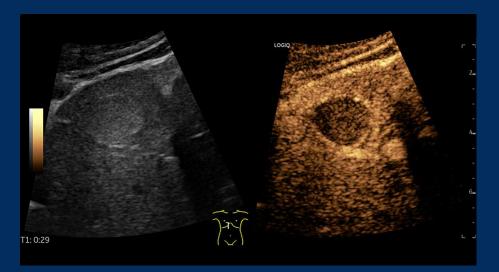
#### **cSound**™ Architecture facilitates next-generation imaging

LOGIQ Fortis features cSound Architecture, which combines versatile XDclear<sup>™</sup> probes, cSound Imageformer and new, advanced Speckled Reduction Imaging (SRI) technology. The result is increased processing power that delivers enhanced data throughput for exceptional image quality, clarity and confidence.

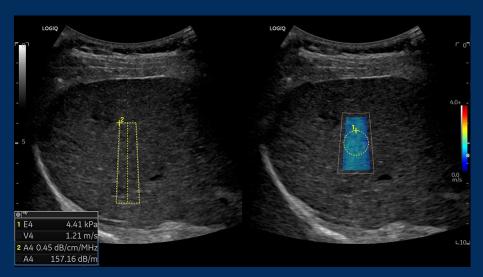
#### Advanced quantification simplifies patient management

Robust tools, such as 2D Shear Wave Elastography and Ultrasound-Guided Attenuation Parameter (UGAP), help reduce the need for invasive procedures and help provide valuable information for patient management decisions.

#### LOGIQ Fortis at work



Contrast enhanced liver lesion, C2-9-D



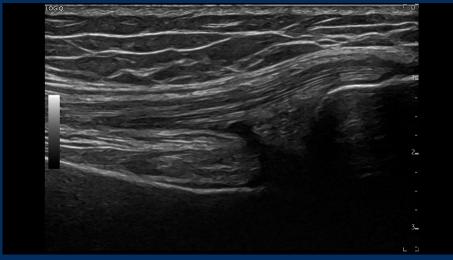
Hepatic Assistant – UGAP and Shear Wave Elastography, C1-6-D



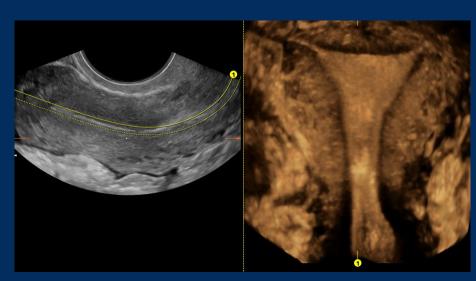
MVI with Radiant flow - groin lymph node, ML6-15-D



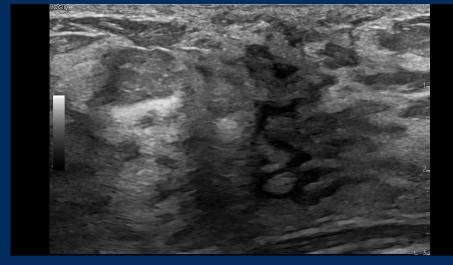
Color flow of mitral valve apical 4-chamber view, M5Sc-D



B-Mode with Advanced SRI – knee tendon, ML6-15-D



OmniView dual screen, RIC5-9-D



B-Mode with Advanced SRI in breast, ML6-15-D

For your multi-purpose ultrasound needs, LOGIQ Fortis is always ready and always by your side.

LOGIQ Fortis helps clinicians streamline their workflow, ensure accurate results, and enhance patient comfort. Its productivity tools help facilitate diagnoses and its design makes it easy to clean and simple to operate.

#### A system that's easily moved to where it's needed

Due to its sleek footprint, LOGIQ Fortis is simple to maneuver and can fit into almost any space—from patient rooms to exam rooms to operating rooms.

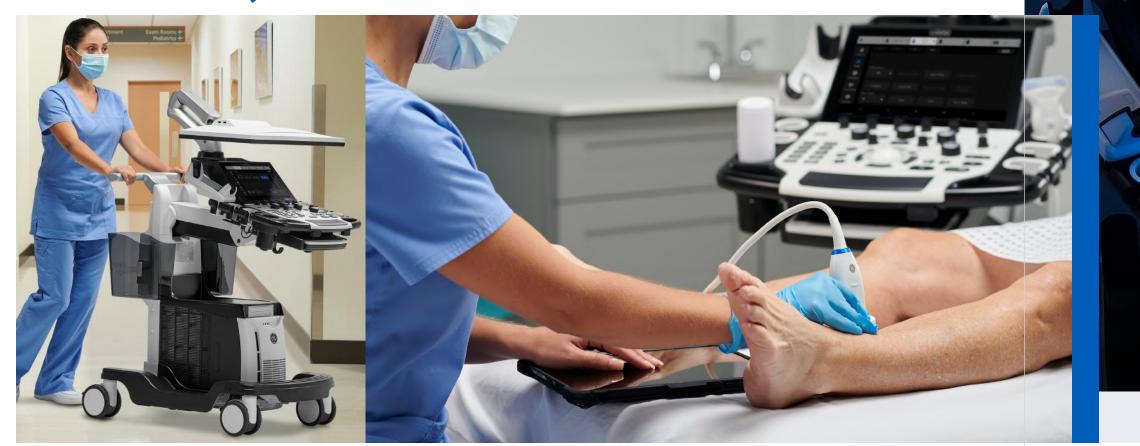
#### Al-based tools streamline and optimize workflow

LOGIQ Fortis harnesses the power of artificial intelligence to improve the speed, ease and comfort of exams. With its Al-based tools, users can achieve exceptional images quickly.

#### LOGIQ apps make remote usage possible—and simple

A variety of apps for mobile devices add next-level context with photos and enable users to control LOGIQ Fortis remotely. The result is an optimized ergonomic experience for you and your patients.

Productivity & workflow: **OPTIMIZED** 



# Your investment: **MAXIMIZED**

When you purchase an ultrasound system, it's not just an investment for your facility—it's also an investment in your clinicians and patients. With LOGIQ Fortis, you'll be able to maximize that investment for everyone. Because it's easily scaled to meet the evolving needs of today and tomorrow, you'll be able to depend on LOGIQ Fortis for years to come. And, because it can be used for a wide variety of exams and procedures on any body type, the need to purchase multiple ultrasound systems for different requirements is eliminated. LOGIQ Fortis is the all-in-one ultrasound system that delivers a one-of-a-kind solution.



## The A to A digital platform enhances the intelligence of the LOGIQ Fortis

From Awareness to Assistance, our A to A digital platform allows your organization to stay at the forefront of clinical imaging. It's specifically engineered so you can add next-generation capabilities to LOGIQ Fortis in the years ahead.



## Lifecycle solutions for where you are today—and where you will be tomorrow

The advanced digital support features of LOGIQ Fortis make it easy to optimize your ownership experience. From InSite™ remote support, to iCenter™ performance analytics, to AVURI remote device management, you'll have access to the tools you'll need to optimize your assets, streamline your operations, and to ensure you're prepared to meet your facility's evolving needs.



#### SonoDefense Data Security Protection guards your investment 24/7

With its multi-layer approach to cybersecurity and data privacy protection, SonoDefense protects LOGIQ Fortis from cyberthreats and unauthorized access around the clock. Your investment is secured—and so is your confidence.













## **LOGIQ Fortis**

A powerful, streamlined ultrasound solution that's always ready, always by your side.



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September 2021 JB16976XX Global





The LOGIQ Fortis is GE's premium ultrasound imaging system designed for general imaging applications including abdominal, vascular, obstetric, gynecologic, neonatal, pediatric, urological, transcranial, cardiac, and small parts applications.

## General specifications

#### **Dimensions and weight**

(Dimensions given with floating keyboard stowed and display tilted for transport)

Height	1250 – 1800 mm, 49 – 71"
Width	530 mm, 20.9" (Caster) 565 mm, 22.2" (Monitor)
Depth	885 mm, 34.8"
Weight	85 kg (187.4 lb)

#### **Electrical power**

Voltage 100 - 240 VAC

Frequency 50/60 Hz

Power consumption maximum of 0.9 KVA with peripherals

#### **Console design**

4 active probe ports

1 inactive probe storage port

Integrated SSD (1 TB)

Integrated DVD-R Multi Drive

On-board storage of thermal printer

Integrated speaker

Integrated locking mechanism that provides rolling lock and caster swivel lock

Integrated cable management

Front and rear handles

Easily removable air filters

### User interface

#### **Operator keyboard**

Operating keyboard, adjustable in height and rotation

Ergonomic hard key layout

Interactive back-lighting

Integrated recording keys for remote control of up to 4 peripheral or DICOM® devices

Integrated gel warmer

#### **Touch screen**

12.1" High-resolution, color, touch display screen

Interactive dynamic software menu

Brightness adjustment

User-configurable layout

#### **Display monitor**

23.8" Widescreen high-resolution HDU Display

Display translation (independent of console)

350 mm (13.7") horizontal (both directions)

120 mm (4.7") vertical

90° swivel (both directions)

Fold-down and lock mechanism for transportation

Resolution: 1920 x 1080

Anti-glare

Viewing angle 89/89/89/89°

## System overview

#### **Applications**

Abdominal

Obstetrical

Gynecological

**Breast** 

**Small Parts** 

Peripheral Vascular

Transcranial (adult and neonatal)

Pediatric and Neonatal

Musculoskeletal (general and superficial)

Urological

Cardiac (adult and pediatric)

Interventional

Pleural

## System overview (cont.)

#### **Operating modes**

**B-Mode** 

M-Mode

Color Flow Mode (CFM)

B-Flow<sup>™</sup> (Option)

Extended Field of View (LOGIQ View)

Power Doppler Imaging (PDI)

PW Doppler

CW Doppler (Option)

Volume Modes (3D/4D)

• 3D Static

(Option)

4D Real Time

Anatomical M-Mode

Coded Contrast Imaging (Option)

Strain Elastography (Option)

B-Steer+ (Option)

Shearwave Elastography (Option)

**UGAP** (Option)

#### **Scanning methods**

Electronic sector

Electronic convex

Electronic linear

Mechanical volume sweep

#### **Probe types**

Sector phased array

Convex array

Micro convex array

Linear array

Matrix array

Volume probes (4D)

Split crystal

#### **System standard features**

Advanced user interface with high-resolution 12.1" display touch panel

Automatic optimization

CrossXBeam™

Speckle Reduction Imaging (SRI-HD, Advanced SRI Type 1)

Fine angle steer

Coded harmonic imaging

Virtual convex

Patient information database

Image archive on integrated CD/DVD and hard drive

Advanced 3D

Real-time automatic Doppler calculations

OB calculations

Fetal trending

Multigestational calculations

Hip dysplasia calculations

Gynecological calculations

Vascular calculations

Urological calculations

Renal calculations

Cardiac calculations

InSite<sup>™</sup> capability

On-board electronic documentation

Auto CF/PW positioning feature

Privacy and security, including user and rights management

LOGIQView

Breast productivity package (Option)

Thyroid productivity package (Option)

External USB printer connection

Network printer support

HDMI output (available for compatible devices)

## System overview (cont.)

Jystelli over	VIEVV (cont.)
Options	
Tricefy <sup>®</sup>	
DICOM	
B-Flow	
Auto IMT	
Compare assistant	
Scan assistant	
OB measure assistant	
Color quantification	
Strain Elastography	
Elastography quantifica	tion
Advanced privacy and s	ecurity (vulnerability scan)
Power assistant and sca	an on battery
Storage bins	
Shear wave elastograph	ny
Volume navigation	
UGAP	
Hepatic assistant	
Coded Contrast Imaging	g
Stress echo	
Cardiac Strain (Automa	tic Function Imaging)
On-board reporting	
TVI	
Wireless LAN	
CW	
DVR	
Tablet tools	
Advanced probes	
KOIOS	
SonoNT SonoIT	
Advanced SRI Type 2	

Peripheral options	
Integrated options for	<ul><li>Digital B&amp;W thermal printer</li><li>DVD video recorder</li></ul>
Digital color thermal p	printer
Digital A6 color therm	al printer
Foot switch with prog	rammable functionality
Console protective co	ver
LOGIQ smart device apps	<ul><li>Photo Assistant</li><li>Remote Control</li></ul>
CRF-200U card reade	r (for Japan)
Display modes	
Live and stored display format	<ul> <li>Full size and split screen – both w/ thumbnails. For still and CINE.</li> </ul>
Review image format	• 4x4, and thumbnails. For still and CINE
Timeline display	<ul> <li>Independent Dual B or CrossXBeam/ PW Display</li> <li>CW</li> <li>Top/bottom selectable display format</li> <li>Side/side selectable format</li> </ul>
Virtual convex	

#### Simultaneous capability

B or CrossXBeam/PW

B or CrossXBeam/CW (Option)

B or CrossXBeam/CFM or PDI

B/M

B/CrossXBeam

B-Flow/PW

Real-time Triplex Mode

B or CrossXBeam + CFM or PDI/PW

#### Selectable alternating modes

B or CrossXBeam/PW

B or CrossXBeam + CFM (PDI)/PW

B/CW (Option)

## System overview (cont.)

#### Multi-image (split/quad screen)

Live and/or frozen

B or CrossXBeam + B or CrossXBeam/CFM or PDI

PW/M

Independent CINE playback

#### **Display annotation**

Patient name: first, last, and middle

Patient ID

Alternate patient ID

Age, sex, and date of birth

Hospital name

Hospital Hairie		
Date format: three types selectable	<ul><li>MM/DD/YY</li><li>YY/MM/DD</li></ul>	• DD/MM/YY
Time format: two types selectable	• 24 hours	• 12 hours
Gestational age from	• LMP • EDD	• GA • BBT

Probe name

Map names

Probe orientation

Depth scale marker

Lateral scale marker

Image depth

Zoom depth

B-Mode	<ul><li> Gain</li><li> Imaging frequency</li><li> Gray map</li></ul>	<ul><li>Dynamic range</li><li>Frame averaging</li><li>SRI-HD</li></ul>
M-Mode	<ul><li> Gain</li><li> Time scale</li></ul>	• Dynamic range
Doppler Mode	<ul> <li>Gain</li> <li>Sample volume depth and width</li> <li>Spectrum inversion</li> <li>Time scale</li> <li>Doppler frequency</li> </ul>	<ul><li>Angle</li><li>Wall filter</li><li>Velocity and/or frequency scale</li><li>PRF</li></ul>

#### Display annotation (cont.)

#### Color Flow Doppler Mode

- Line density
- Frame averaging
- Color Scale, 3 types: power, directional PDI, and symmetrical velocity imaging
- · Color velocity range and baseline
- · Color threshold marker
- · Color gain
- PDI
- · Spectrum inversion
- Doppler frequency

TGC curve

Acoustic frame rate

CINE gage, image number/frame number

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 maximum power output

Biopsy guideline and zone

Heart rate

## General system parameters

#### **System setup**

Pre-programmed categories

User programmable preset capability

Factory default preset data

Languages: English, French, German, Spanish, Italian, Brazilian Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian

OB report formats including Tokyo Univ., Osaka Univ., USA, Europe, ASUM, and WHO

User defined annotations

Body patterns

Customized comment home position

EZ Imaging: Simplified user interface for high volume workflow

## 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

1 GB of CINE memory

Selectable CINE sequence for CINE review

Prospective CINE mark

Measurements/calculations and annotations on CINE playback

Scrolling timeline memory

Dual Image CINE display

Quad Image CINE display

CINE gauge and CINE image number display

CINE review loop

CINE review speed

#### **Image storage**

On-board database of patient information from past exams

Storage formats: DICOM

- Compressed/uncompressed
- Single/multi-frame
- Enhanced (3D/4D)
- With/without raw data

Export JPEG, JPEG 2000, WMV (MPEG 4) formats

Storage devices

- USB memory stick: 64 MB to 64 GB (for exporting individual images/clips)
- CD-R storage: 700 MB
- DVD storage: -R (4.7 GB)
- Hard drive image storage: ~730GB

Compare previous exam images with current exam

Reload of archived data sets

#### **Connectivity**

Ethernet network connection

Wireless LAN 802.11ac/a/b/g/n (Option)

DICOM 3.0

- Verify
- Print
- Store
- Modality worklist
- Storage commitment
- Modality performed procedure step (MPPS)
- Media exchange
- Off network/mobile storage queue
- Query/retrieve

Public SR template

Structured Reporting – compatible with vascular, OB, cardiac, and breast standard

InSite capability

Advanced privacy and security (Option)

#### Physiological input panel (Option)

Physiological input

- ECG, 1 channel
- PCG, 1 channel
- AUX, 1 channel
- Dual R-Trigger
- Pre-settable ECG R delay time
- Pre-settable ECG position
- Adjustable ECG gain control
- Pre-settable PCG position
- Adjustable PCG gain control
- Pre-settable AUX position
- Adjustable AUX gain control

Automatic heart rate display

**Auto Ejection Fraction** 

#### **Report writer (Option)**

On-board reporting package automates report writing

Formats various exam results into a report suitable for printing or reviewing on a standard PC

Exam results include patient info, exam info, measurements, calculations, images, and comments with standard templates provided

Customizable templates

#### **Scanning parameters**

Displayed imaging depth: 0 - 100 cm

Minimum depth of field: 0 – 2 cm (zoom) (probe dependent)

Maximum depth of field: 0 - 100 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
- Dynamic range
- Gray scale map
- Speed of sound (application
- dependent) Scanning size
- (FOV or Angle) Probe type dependent; consult individual probe

specifications

- Gain
  - · Frame averaging
  - Frequency
  - Frame rate
  - CrossXBeam
  - B colorization
  - Reject
  - Suppression
  - SRI-HD

#### **Digital M-Mode**

Adjustable

- Acoustic power
- Dynamic range
- Frequency
- M colorization
- Rejection
- Gain
  - Gray scale map
  - · Sweep speed

  - · M display format

#### **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

#### **Digital Spectral Doppler Mode**

Adjustable

- Acoustic power
- Gain
- · Dynamic range
- · Gray scale map
- Transmit frequency Wall filter
- PW colorization

- · Velocity scale
- · Sweep speed

- range
- Sample volume
- Angle correction
- length
- · Steered linear • Spectrum inversion • Trace method
- Baseline shift • Time resolution
- Doppler auto trace Compression
- Trace direction Trace sensitivity

#### Digital Color Flow Mode

Adjustable

- Acoustic power
- Gain
- Velocity scale range
- Wall filter

- Packet size
- Spatial filter
- Frame average
- Accumulation mode Auto ROI
- · Flash suppression
- Shortcuts

- · Color maps, including
  - velocity-variance
- maps · Line density
- · Steering angle
- Threshold

- placement and
- steering on linear

#### **Digital Power Doppler Imaging**

Adjustable

- Acoustic power
- Gain
- Velocity scale range
- Wall filter
- Packet size
- Spatial filter
- Frame average
- Threshold
- maps Line density Steering angle

velocity-variance

· Color maps,

including

- Accumulation mode Flash suppression Shortcuts

#### **Continuous Wave Doppler (Option)**

Available on the following probes: M5Sc-D, P2D, P6D, 6S-D, 6Tc -RS

Steerable CW mode included

Adjustable

- · Acoustic power
- Dynamic range
- Transmit frequency Wall filter
- CW colorization
- · Sweep speed
- Angle correction
- Trace method
- · Baseline shift Compression

• Trace direction

- Gain · Gray scale map

  - Velocity scale range
  - Spectrum
  - inversion
  - Doppler auto
  - trace Trace sensitivity

#### **Automatic optimization**

Optimize B-Mode image to help improve contrast resolution

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

CTO (Continuous Tissue Optimization) – continuously adjusts B-Mode axial and lateral gain uniformity and overall gain level, suppressing the noise

Auto-spectral optimize - adjusts baseline, invert, PRF (on live image), and angle correction

Auto CF and PW positioning – adjusts ROI position, sample volume position, and steering

#### **Coded Harmonic Imaging**

Available on all 2D and 4D probes

#### **B-Flow (Option)**

Available on the following probes: C1-6-D, C1-6VN-D, C2-7-D, C2-7VN-D, C2-9-D,C2-9VN-D, C3-10-D, L2-9-D, L2-9VN-D, L3-12-D, ML6-15-D,M5Sc-D, L8-18i-D, L6-24D

Background

Sensitivity/PRI

Acoustic power

Frequency

Line density

Frame average

Gray scale map

Tint map

Dynamic range

Rejection

Gain

Flash suppression

SRI-HD

Accumulation

Visualization

#### **Radiantflow**™

Easy, fast visualization of tiny vessels, displaying as a 3D effect

#### **B** Steer+

Available on the following probes: L2-9-D, L3-12-D, ML6-15-D, L8-18i-D, L2-9VN-D, L6-24

#### **Coded contrast imaging (Option)**

Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D, C2-7-D, C2-7VN-D, C3-10-D, IC5-9-D, L2-9-D, L2-9VN-D, L3-12-D, M5Sc-D, ML6-15-D, RAB6-D, RIC5-9-D

2 contrast timers

Timed updates: 0.05 - 10 seconds

Accumulation mode, seven levels

Maximum enhance mode

Flash

Time intensity curve (TIC) analysis

Parametric imaging

The LOGIQ Fortis is designed for compatibility with most 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**

Extended field of view Imaging

Up to 160 cm (63") scan length

Available on all 2D imaging probes

For use in B-Mode

CrossXBeam is available on linear probes

Auto detection of scan direction

Pre-or post-process zoom

Rotation

Auto best fit on monitor

Measurements in B-Mode

#### 3D

Allows unlimited rotation and planar translations

3D reconstruction from CINE sweep

#### **Advanced 3D**

Acquisition of color data

Automatic rendering

3D landscape technology

3D movie

#### **Real Time 4D (Option)**

Acquisition modes

- Real Time 4D
- Static 3D
- Spatio-Temporal Image Correlation

- Visualization modes 3D rendering (diverse surface and intensity projection modes)
  - Sectional planes (3 section planes perpendicular to each other)
  - Omniview
  - Volume contrast imaging static
  - Volume contrast imaging Omniview
  - · Tomographic ultrasound imaging
  - Volume Analyses
  - VOCAL: semi-auto/manual segmentation tool (segmentation using touch screen)
  - 3D static only
  - Threshold Volume: measure volume above and below a threshold

Render mode

- · Surface texture, surface smooth, maxmin- and X-ray (average intensity projection), mix mode of two render modes
- HDlive™

SonoRenderlive

Curved 3-point render start

3D movie

Scalpel: 3D cut tool

Display format

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

Automated volume calculation - VOCAL II

**Betaview** 

#### **Volume navigation (Option)**

Available on the following probes: C1-6VN-D, C2-9VN-D, C2-7VN-D, C3-10-D, L2-9VN-D, ML6-15-D, IC5-9-D, L8-18i-D, M5Sc-D

Sensor-based acquisition

Position markers

Needle tip tracking

Virtual tracking

Auto image registration

Tru3D feature includes:

Display of data in: main-, parallel-,

angular-mode

Render modes: gray surface, texture, min-, max-, average-intensity

Measurements: distance, angle, area, volume

3D movie

#### **Scan assistant (Option)**

Factory programs

User-defined programs

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

#### **Compare assistant (Option)**

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

#### **Breast productivity package**

Auto measurement

Worksheet summary includes measurements and locations for lesions and lymph nodes

Feature assessment

BI-RADS® assessment

User editable

#### Thyroid productivity package

Auto measurement

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

Feature assessment

TI-RADs assessment

User editable

#### **Start Assistant**

Automatically select category, probe, preset, or scan assistant from worklist exam description

Learn the category, probe, preset, and scan assistant based on exam description

#### **Shear Wave Elastography (Option)**

Available on the following probes: C1-6-D, C1-6VN-D, IC5-9-D, L2-9-D, L2-9VN-D,L3-12D, ML6-15-D, L8-18D

User programmable measurement display in kPa and meters per second

Single and dual view display

#### **Strain Elastography (Option)**

Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, L3-12-D, IC5-9-D, C2-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D

Relative analysis tool

#### **UGAP** (Option)

Available on the following probes: C1-6-D, C1-6VN-D, C2-9D, C2-9VN-D

Measures liver attenuation\* (attenuation coefficient [dB/cm/ MHz]) by auto measure algorithm with reference B-mode

Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)

#### Quantitative flow analysis (Option)

Available in color and power Doppler

#### TVI (Option)

Available on the following probes: M5Sc-D, 6S-D, 6TC-RS, 6Tc-RS

Myocardial Doppler imaging with color overlay on tissue image

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 of 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

6 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 (e.g. geometry, frequency, gain) according to same projection on previous level

#### **Auto EF (Option)**

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

User editable

#### **Cardiac AFI (Option)**

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

2D strain-based data moves into clinical practice

#### **Virtual convex**

Provides a convex field of view

Compatible with CrossXBeam

Available on all linear and sector probes

#### **SRI-HD and Advanced SRI**

Speckle reduction imaging

Provides multiple levels of speckle reduction

Compatible with side-by-side DualView display

Advanced SRI: two types selectable

- Type 1
- Compatible with all linear, convex, and sector probes
- Type 2 (Option)
- Compatible with OB/GYN application

#### CrossXBeam

Provides variable angle spatial compounding

Live side-by-side DualView display

Compatible with

- Color mode
- SRI-HD
- Coded harmonic
- Virtual convex
- imaging

Available on all curved and linear probes

#### Controls available while "live"

Magnification Zoom: Magnifies the entire image on the screen without zoom ROI

Pan Zoom: Magnifies the display of the data within the ROI

HD Zoom: Magnifies the image within the zoom ROI with higher spatial resolution than original images

B/M/CrossXBeam-Mode

- Gain
- TGC

- Dynamic range
- Acoustic output
- Framerate control Sweep speed for
- CrossXBeam angle M-Mode

#### Controls available while "live" (cont.)

PW-Mode

- Gain
- Acoustic output

- PRF
- Wall filter
- Sample volume
- Dynamic range
- Transmission frequency
- Spectral averaging · Velocity scale

CFM velocity

range

- gate: length, depth
- Color Flow Mode · CFM gain
  - Acoustic output
  - Wall echo filter
  - Packet size • Frame rate control • CFM spatial filter
  - CFM frame averaging
- CFM line resolution
- Frequency/velocity baseline shift

#### Controls available on "freeze" or recall

Automatic optimization

SRI-HD

CrossXBeam - display non-compounded and compounded image simultaneously in split screen

3D reconstruction from a stored CINE loop

B/M/CrossXBeam mode

- Gray map optimization
- TGC
- Colorized B and M
- Frame average (loops only)
- · Dynamic range

Anatomical M-Mode

Magnification zoom

Pan zoom

Baseline shift

Sweep speed

PW mode

- Gray map
- Baseline shift
- Invert spectral
- wave form
- Display format • Colorized spectrum • Angle correct
- · Quick angle correct · Auto angle correct

• Post gain

Sweep speed

Compression

Color flow

- · Overall gain (loops and stills)
- Color map
- Transparency map
- Frame averaging (loops only)
- CFM display threshold
- Spectral invert for color/Doppler

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 and distance

Circumference (ellipse/trace)

Area (ellipse/trace)

Volume (ellipsoid)

% Stenosis (area or diameter)

Angle between two lines

**Dual B-Mode capability** 

#### **General M-Mode**

M-Depth

Distance

Time

Slope

Heart rate

#### **General Doppler measurements/calculations**

Velocity

Time

A/B ratio (velocities/frequency ratio)

PS (Peak Systole)

ED (End Diastole)

PS/ED (PS/ED Ratio)

ED/PS (ED/PS Ratio)

AT (Acceleration Time)

ACCEL (Acceleration)

TAMAX (Time Averaged Maximum Velocity)

Volume flow (TAMEAN and vessel area)

Heart rate

PI (Pulsatility Index)

RI (Resistivity Index)

#### Real-time Doppler auto measurements/calculations

PS (Peak Systole)

ED (End Diastole)

MD (Minimum Diastole)

PI (Pulsatility Index)

RI (Resistivity Index)

## Measurements/calculations (cont.)

#### Real-time Doppler auto measurements/calculations (cont.)

AT (Acceleration Time)

ACC (Acceleration)

PS/ED (PS/ED Ratio)

ED/PS (ED/PS Ratio)

HR (Heart Rate)

TAMAX (Time Averaged Maximum Velocity)

PVAL (Peak Velocity Value)

Volume Flow (TAMEAN and Vessel Area)

#### Abdominal measurements/calculations

Shear Elasto velocity

Shear Elasto stiffness

Attenuation rate

Attenuation coefficient

Summary reports

#### **Small Parts measurements/calculations**

**Breast Lesion** 

Thyroid

Parathyroid

Lymph Node

Nodule

Isthmus AP

Shear Elasto velocity

Shear Elasto stiffness

Summary reports

#### **OB** measurements/calculations

#### Gestational age by

- GS (Gestational Sac)
- CRL (Crown Rump Length)
- FL (Femur Length)
- BPD (Biparietal Diameter)
- AC (Abdominal Circumference)
- HC (Head Circumference)
- APTD x TTD (Anterior/Posterior Trunk Diameter by Transverse Trunk Diameter)
- FTA (Fetal Trunk Cross-sectional Area)
- HL (Humerus Length)
- BD (Binocular Distance)
- FT (Foot Length)
- OFD (Occipital Frontal Diameter)
- TAD (Transverse Abdominal Diameter)
- TCD (Transverse Cerebellum Diameter)
- THD (Thorax Transverse Diameter)
- TIB (Tibia Length)
- ULNA (Ulna Length)
- OOD (Outer Orbital Diameter)
- IOD (Inner Orbital Diameter)
- FIB (Fibula length)
- Radius (Radius length)
- LV (Lateral Ventricle width) (= SL)

#### 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** 

#### 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

### Measurements/calculations (cont.)

#### **Calculations and ratios**

FL/BPD

FL/AC

FL/HC

HC/AC

CI (Cephalic Index)

AFI (Amniotic Fluid Index)

CTAR (Cardio-Thoracic Area Ratio)

Measurements/calculations by: Alexander, ASUM, ASUM 2001, Bahlmann, Baschat, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chervenak, Chitty, Doubilet, Ebing, Eik-Nes Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kramer, Kurmanavicius, Kurtz, Mari, Mayden, Mercer, Merz, Moore, Nelson, Osaka University, Paris, Pexsters, Rempen, Robinson, Shepard, Shepard/Warsoff, Sonek, Tokyo University, Tokyo/Shinozuka, WHO, Williams, Yarkoni

#### **OB** measure assistant

Allows automatic measurement of BPD, HC, FL, AC, and HL

User editable

#### **SonoNT and SonoIT**

SonoNT measures the contour detection of the NT border

SonoIT is a system supported measurement for Intracranial Translucency

#### **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

Fibroid measurements

Summary reports

Mean Uterine Artery (Gomez) Doppler Measurement and graph

Qualitative description (anatomical survey)

#### Vascular measurements/calculations

SYS DCCA (Systolic Distal Common Carotid Artery)

DIAS DCCA (Diastolic Distal Common Carotid Artery)

SYS MCCA (Systolic Mid Common Carotid Artery)

DIAS MCCA (Diastolic Mid Common Carotid Artery)

SYS PCCA (Systolic Proximal Common Carotid Artery)

DIAS PCCA (Diastolic Proximal Common Carotid Artery)

SYS DICA (Systolic Distal Internal Carotid Artery)

DIAS DICA (Systolic Distal Internal Carotid Artery)

SYS MICA (Systolic Mid Internal Carotid Artery)

DIAS MICA (Diastolic Mid Internal Carotid Artery)

SYS PICA (Systolic Proximal Internal Carotid Artery)

DIAS PICA (Diastolic Proximal Internal Carotid Artery)

SYS DECA (Systolic Distal External Carotid Artery)

DIAS DECA (Diastolic Distal External Carotid Artery)

SYS PECA (Systolic Proximal External Carotid Artery)

DIAS PECA (Diastolic Proximal External Carotid Artery)

VERT (Systolic Vertebral Velocity)

SUBCLAV (Systolic Subclavian Velocity)

Automatic IMT

Summary reports

#### **Urological calculations**

Bladder volume

Prostate volume

Left/right renal volume

Generic volume

Post-void bladder volume

Pelvic floor measurements

### Probes (All Optional)

#### **BE9CS-D**

Applications: urology

Biopsy guide: single angle, disposable (E8387M);

single angle, reusable (E8387MA)

#### 6S-D, sector probe

Applications: cardiac, pediatric cardiac

#### 6Tc-RS, trans-esophageal probe

Applications: cardiac

TEE RS-DLP Adapter (H46352LK)

#### C1-6-D, XDclear<sup>™</sup> convex probe

Applications: abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal

Biopsy guide: multi-angle, disposable with a reusable bracket (H4917VB)

#### C1-6VN-D, VNav inside XDclear convex probe

VNav sensor inside probe for Volume Navigation tracking without sensor cables

Applications: abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal

Biopsy guide: multi-angle, disposable with a reusable bracket (H4917VB)

#### C2-7-D, micro convex biopsy probe

Applications: abdomen, pediatric

Biopsy guide: multi-angle, disposable with a reusable bracket (H40482LK); multi-angle, with a reusable stainless bracket (H40482LL)

#### C2-7VN-D, VNav inside micro convex biopsy probe

VNav sensor inside probe for Volume Navigation tracking without sensor cables

Applications: abdomen, pediatric

Biopsy guide: multi-angle, disposable with a reusable bracket (H40482LK); multi-angle, with a reusable stainless bracket (H40482LL)

#### C2-9-D, XDclear convex probe

Applications: abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal

Biopsy guide: multi-angle, disposable with a reusable bracket (H4913BA)

#### C2-9VN-D, VNav inside XDclear convex probe

VNav sensor inside probe for Volume Navigation tracking without sensor cables

Applications: abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal

Biopsy guide: multi-angle, disposable with a reusable bracket (H4913BA)

#### C3-10-D, XDclear micro convex probe

Applications: abdomen, neonatal, pediatric, peripheral vascular, neonatal transcranial, small parts

#### IC5-9-D, micro convex probe

Applications: OB/GYN, urology

Biopsy guide: single angle, disposable with a disposable bracket (E8385MJ) or a reusable bracket (H40412LN)

#### L2-9-D, XDclear linear probe

Applications: peripheral vascular, small parts, pediatric, abdomen, OB/GYN, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial

Biopsy guide: multi-angle, disposable with a reusable bracket (H44901AM)

#### L2-9VN-D, VNav inside XDclear linear probe

VNav sensor inside probe for Volume Navigation tracking without sensor cables

Applications: peripheral vascular, small parts, pediatric, abdomen, OB/GYN, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial

Biopsy guide: multi-angle, disposable with a reusable bracket (H44901AM)

#### L3-12-D, linear probe

Applications: abdomen, OB, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular

Biopsy guide: multi-angle, disposable with a reusable bracket (H78652PA)

#### L6-24-D, linear probe

Applications: general musculoskeletal, superficial musculoskeletal, pediatrics, thyroid

### Probes (cont.)

#### L8-18i-D, linear probe

Applications: small parts, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal, superficial musculoskeletal, intraoperative

#### M5Sc-D, XDclear sector probe

Applications: adult cardiac, pediatric cardiac, adult cephalic, abdominal

Biopsy guide: multi-angle, disposable with a reusable bracket (H45561FC)

#### ML6-15-D, matrix array linear probe

Applications: abdomen, small parts, peripheral vascular, neonatal, pediatric, neonatal transcranial, general musculoskeletal, superficial musculoskeletal

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

#### P2D, CW split crystal probe

Applications: adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic

#### P6D, CW split crystal probe

Applications: adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic

#### RAB6-D, convex volume probe

Applications: abdomen, OB/GYN, pediatric, neonatal

Biopsy guide: single angle, reusable bracket (H46701AE)

#### RIC5-9-D, convex volume probe

Applications: OB/GYN, urology

Biopsy guide: single angle, reusable (H46721R)

## External Inputs and outputs (not including on-board peripherals)

HDMI

Ethernet

Multiple USB 3.0 ports

## Safety conformance

#### The LOGIQ Fortis is:

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 EU Medical Device Regulation MDR 2017-745 and Council Directive 93/42/EEC on Medical Devices and conforms to the following standards for safety:

- IEC/EN 60601-1 Edition 3.1 Medical electrical equipment – Part 1: General requirements for basic safety and essential performance
- IEC/EN 60601-1-2 Medial electrical equipment – Parts 1-2: General requirements for safety – Collateral standard: Electromagnetic compatibility – requirements and tests
- IEC/EN 60601-1-6 Medical electrical equipment Parts 1-6: General requirements for basic safety and essential performance – Collateral standard: usability
- IEC/EN 60601-2-37 Medical electrical equipment – Parts 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 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)

B-Mode measure	ements
Aorta	<ul> <li>Aortic Root Diameter (Ao Root Diam)</li> <li>Aortic Arch Diameter (Ao Arch Diam)</li> <li>Ascending Aortic Diameter (Ao Asc Diam)</li> <li>Descending Aortic Diameter (Ao Desc Diam)</li> <li>Aorta Isthmus (Ao Isthmus)</li> <li>Aorta (Ao st junct)</li> </ul>
Aortic valve	<ul> <li>Aortic Valve Cusp Separation (AV Cusp)</li> <li>Aortic Valve Area Planimetry (AVA Planimetry)</li> <li>Trans AVA</li> </ul>
Left atrium	<ul> <li>Left Atrium Diameter (LA Diam)</li> <li>LA Length (LA Major)</li> <li>LA Width (LA Minor)</li> <li>Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao ratio)</li> <li>Left Atrium Area (LAA(d), LAA(s))</li> <li>Left Atrium Volume, Single Plane, Method of Disk (LAEDV A2C, LAESV A2C) (LAEDV A4C, LAESV A4C), (LAEDV A-L, LAEDV Index A-L, LAESV A-L, LAESV Index A-L)</li> </ul>

#### **B-Mode measurements** (cont.)

#### Left ventricle

- Left Ventricle Mass (LVPWd, LVPWs)
- Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)
- Left Ventricle Internal Diameter (LVIDd, LVI Ds) Left Ventricle Length (LVLd, LVLs)
- Left Ventricle Outflow Tract Diameter (LVOT Diam)
- Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs)
- Left Ventricle Length (LV Major)
- Left Ventricle Width (LV Minor)
- Left Ventricle Outflow Tract Area (LVOT)
- Left Ventricle Area, Two Chamber/Four Chamber/Short Axis (LVA (d), LVA (s))
- Left Ventricle Endocardial Area, Width (LVA (d), LVA(s))
- Left Ventricle Epicardial Area, Length (LVAepi (d), LVAepi (s))
- Left Ventricle Mass Index (LVPWd, LVPWs)
- Ejection Fraction, Teichholz/Cube (LVIDd, LVIDs)
- Left Ventricle Posterior Wall Fractional Shortening (LVPWd, LVPWs)
- Left Ventricle Stroke Index, Teichholz/ Cube (LVIDd, LVIDs and Body Surface Area)
- Left Ventricle Fractional Shortening (LVIDd, LVIDs)
- Left Ventricle Stroke Volume, Teichholz/ Cubic (LVIDd, LVIDs)
- Left Ventricle Stroke Index, Single Plane, Two Chamber, Method of Disk (LVI Dd, LVIDs, LVSd, LVSs)
- Left Ventricle Stroke Index, Single Plane, Four Chamber, Method of Disk (LVI Dd, LVIDs, LVSd, LVSs)
- Left Ventricle Stroke Index, Bi-Plane, Bullet, Method of Disk (LVAd, LVAs)
- Interventricular Septum (IVS)
- Left Ventricle Internal Diameter (LVI D)
- Left Ventricle Posterior Wall Thickness (LVPW)

B-Mode measurements (cont.)		M-Mode measurements		
Mitral valve	<ul> <li>Mitral Valve Annulus Diameter (MV Ann Diam)</li> <li>E-Point-to-Septum Separation (EPSS)</li> <li>Mitral Valve Area Planimetry (MVA Planimetry)</li> </ul>	Aorta	<ul> <li>Aortic Root Diameter (Ao Root Diam)</li> <li>Aortic Valve</li> <li>Aortic Valve Diameter (AV Diam)</li> <li>Aortic Valve Cusp separation (AV Cusp)</li> <li>Aortic Valve Ejection Time (LVET)</li> </ul>	
Pulmonic valve	<ul> <li>Pulmonic Valve Area (PV Planimetry)</li> <li>Pulmonic Valve Annulus Diameter (PV Annulus Diam)</li> <li>Pulmonic Diameter (Pulmonic Diam)</li> </ul>	Left atrium	<ul> <li>Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio)</li> <li>Left Atrium Diameter (LA Diam)</li> </ul>	
Right atrium	<ul> <li>Right Atrium Diameter, Length (RAD Ma)</li> <li>Right Atrium Diameter, Width (RAD Mi)</li> <li>Right Atrium Area (RAA)</li> <li>Right Atrium Volume, Single Plane, Method of Disk (RAAd)</li> <li>Right Atrium Volume, Systolic, Single Plane, Method of Disk (RAAs)</li> </ul>	Left ventricle	<ul> <li>Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)</li> <li>Left Ventricle Internal Diameter (LVIDd, LVI Ds)</li> <li>Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs)</li> <li>Left Ventricle Ejection Time (LVET)</li> <li>Left Ventricle Pre-Ejection Period (LVPEP)</li> <li>Interventricular Septum (IVS)</li> <li>Left Ventricle Internal Diameter (LVI D)</li> <li>Left Ventricle Posterior Wall Thickness (LVPW)</li> </ul>	
(RVOT  • Left Pu  • Right P  • Right V  (RVIDd  • Right V  • Right V  • Right V  • Right V  RVAWs  • Right V  (RVOT	<ul> <li>Right Ventricle Outflow Tract Area (RVOT Planimetry)</li> <li>Left Pulmonary Artery Area (LPA Area)</li> <li>Right Pulmonary Artery Area (RPA Area)</li> <li>Right Ventricle Internal Diameter (RVIDd, RVIDs)</li> <li>Right Ventricle Diameter, Length (RVD Ma)</li> <li>Right Ventricle Diameter, Width (RVD Mi)</li> <li>Right Ventricle Wall Thickness (RVAWd, RVAWs)</li> <li>Right Ventricle Outflow Tract Diameter (RVOT Diam)</li> <li>Left Pulmonary Artery (LPA)</li> </ul>			
		Mitral valve	<ul> <li>E-Point-to-Septum Separation (EPSS)</li> <li>Mitral Valve Leaflet Separation (D-E Excursion)</li> <li>Mitral Valve Anterior Leaflet Excursion (D-E Excursion)</li> <li>Mitral Valve D-E Slope (D-E Slope)</li> <li>Mitral Valve E-F Slope (E-F Slope)</li> <li>Mitral Annular Plane Systolic Excursion (MAPSE)</li> </ul>	
	<ul><li>Main Pulmonary Artery (MPA)</li><li>Right Pulmonary Artery (RPA)</li></ul>	Pulmonic valve	• QRS Complex to End of Envelope (Q-PV close)	
System inferior vena cava	vstem inferior • Systemic Vein Diameter (Systemic Diam)		<ul> <li>Right Ventricle Internal Diameter (RVIDd, RVIDs)</li> <li>Right Ventricle Wall Thickness (RVAWd, RVAWs)</li> <li>Right Ventricle Outflow Tract Diameter (RVOT Diam)</li> <li>Right Ventricle Ejection Time (RVET)</li> <li>Right Ventricle Pre-Ejection Period (RVPEP)</li> </ul>	
	• Interventricular Septum (IVS) Fractional	System	Pericard Effusion (PE (d))	
Tricuspid valve	Shortening (IVSd, IVSs)  • Tricuspid Valve Area (TV Panimetry)  • Tricuspid Valve Annulus Diameter (TV Annulus Diam)		<ul> <li>QRS Complex to End of Envelope (Q-TV close)</li> <li>Tricuspid Annular Plane Systolic Excursion (TAPSE)</li> </ul>	

#### **Doppler Mode measurements**

#### Aortic valve

- Aortic Insufficiency Mean Pressure Gradient (AR Trace)
- Aortic Insufficiency Peak Pressure Gradient (AR Vmax)
- Aortic Insufficiency End Diastole Pressure Gradient (AR Trace)
- Aortic Insufficiency Mean Velocity (AR Trace)
- Aortic Insufficiency Velocity Time Integral (AR Trace)
- · Aortic Valve Mean Velocity (AV Trace)
- Aortic Valve Velocity Time Integral (AV Trace)
- Aortic Valve Mean Pressure Gradient (AV Trace)
- Aortic Valve Peak Pressure Gradient (AR Vmax)
- Aortic Insufficiency Peak Velocity (AR Vmax)
- Aortic Insufficiency End-Diastolic Velocity (AR Trace)
- · Aortic Valve Peak Velocity (AV Vmax)
- Aortic Valve Peak Velocity at Point E (AV Vmax)
- Aorta Proximal Coarctation (Coarc Pre-Duct)
- Aorta Distal Coarctation (Coarc Post-Duct)
- Aortic Valve Insufficiency Pressure Half Time (AR PHT)
- Aortic Valve Flow Acceleration (AV Trace)
- Aortic Valve Pressure Half Time (AV Trace)
- Aortic Valve Acceleration Time (AV Acc Time)
- Aortic Valve Deceleration Time (AV Dec Time)
- Aortic Valve Ejection Time (AVET)
- Aortic Valve Acceleration to Ejection Time Ratio (AV Acc Time, AVET)
- Aortic Valve Area(VTI): AVA (Vmax)

#### Left ventricle

- Left Ventricle Outflow Tract Peak Pressure Gradient (LVOT Vmax)
- Left Ventricle Outflow Tract Peak Velocity (LVOT Vmax)
- Left Ventricle Outflow Tract Mean Pressure Gradient (LVOT Trace)
- Left Ventricle Outflow Tract Mean Velocity (LVOT Trace)
- Left Ventricle Outflow Tract Velocity Time Integral (LVOT Trace)
- Left Ventricle Ejection Time (LVET)

#### Mitral valve

- E' Early diastolic mitral valve annular velocity (E')
- E' Averaged Early diastolic mitral valve annular velocity (E' Avg)
- E' Lat Early diastolic mitral valve lateral annular velocity (E' Lat)
- E' Medial Early diastolic mitral valve medial annular velocity (E' Medial)
- E' Sept Early diastolic mitral valve septal annular velocity (E'Sept)

#### Doppler Mode measurements (cont.)

## Mitral valve (cont.)

- Mitral inflow E velocity to E' ratio (E/E')
- Mitral inflow E velocity to E' Avg ratio (E/E' Avg)
- Mitral inflow E velocity to E' Lat ratio (E/E' Lat)
- Medial Mitral inflow E velocity to E' Medial ratio (E/E')
- Mitral inflow E velocity to E' Sept ratio (E/E' Sept)
- Mitral Valve Regurgitant Flow Acceleration (MR Trace)
- Mitral Valve Regurgitant Mean Velocity (MR Trace)
- Mitral Regurgitant Mean Pressure Gradient (MR Trace)
- Mitral Regurgitant Velocity Time Integral (MR Trace)
- Mitral Valve Mean Velocity (MV Trace)
- Mitral Valve Velocity Time Integral (MV Trace)
- Mitral Valve Mean Pressure Gradient (MV Trace)
- Mitral Regurgitant Peak Pressure Gradient (MR Vmax)
- Mitral Valve Peak Pressure Gradient (MV Vmax)
- Mitral Regurgitant Peak Velocity (MR Vmax)
- Mitral Valve Peak Velocity (MV Vmax)
- Mitral Valve Velocity Peak A (MV A Velocity)
- Mitral Valve Velocity Peak E (MV E Velocity)
- Mitral Valve Area According to PHT (MV PHT)
- Mitral Valve Flow Deceleration (MV DecT)
- Mitral Valve Pressure Half Time (MV PHT)
- Mitral Valve Flow Acceleration (MV AccT)
   Mitral Valve Flow Acceleration (A Color Paris (A Color Paris
- Mitral Valve E-Peak to A-Peak Ratio (A-C and D-E) (MV E/ARatio)
- Mitral Valve Acceleration Time (MV Acc Time)
- Mitral Valve Deceleration Time (MV Dec Time)
- Mitral Valve Ejection Time ((MVET)
- Mitral Valve A-Wave Duration (MV A Dur)
- Mitral Valve Time to Peak (MV TTP)
- Mitral Valve Acceleration Time/Deceleration Time Ratio (MV Acc/Dec Time)
- Stroke Volume Index by Mitral Flow (MVA Planimetry, MVTrace)

#### Pulmonic valve

- Pulmonic Insufficiency Peak Pressure Gradient (PR Vmax)
- Pulmonic Insufficiency End-Diastolic Pressure Gradient (PR Trace)
- Pulmonic Valve Peak Pressure Gradient (PV Vmax)
- Pulmonic Insufficiency Peak Velocity (PR Vmax)

#### Doppler Mode measurements (cont.)

## Pulmonic valve (cont.)

- Pulmonic Insufficiency End-Diastolic Velocity (Prend Vmax)
- Pulmonic Valve Peak Velocity (PV Vmax)
- Pulmonary Artery Diastolic Pressure (PV Trace)
- Pulmonic Insufficiency Mean Pressure Gradient (PR Trace)
- Pulmonic Valve Mean Pressure Gradient (PV Trace)
- Pulmonic Insufficiency Mean Square Root Velocity (PR Trace)
- Pulmonic Insufficiency Velocity Time Integral (PR Trace)
- Pulmonic Valve Mean Velocity (PV Trace)
- Pulmonic Valve Velocity Time Integral (PV Trace)
- Pulmonic Insufficiency Pressure Half Time (PR PHT)
- Pulmonic Valve Flow Acceleration (PV Acc Time)
- Pulmonic Valve Acceleration Time (PV Acc Time)
- Pulmonic Valve Ejection Time (PVET)
- QRS Complex to End of Envelope (Q-to-PV Close)
- Pulmonic Valve Acceleration to Ejection Time Ratio (PV Acc Time, PVET)

#### Right ventricle

- Right Ventricle Outflow Tract Peak Pressure Gradient (RVOT Vmax)
- Right Ventricle Outflow Tract Peak Velocity (RVOT Vmax)
- Right Ventricle Outflow Tract Velocity Time Integral (RVOT Trace)
- Right Ventricle Ejection Time (RV Trace)
- Stroke Volume by Pulmonic Flow (RVOT Planimetry, RVOT Trace)
- Right Ventricle Stroke Volume Index by Pulmonic Flow (RVOT Planimetry, RVOT Trace)

#### System

- Pulmonary Artery Peak Velocity (PV Vmax)
- Pulmonary Vein Velocity Peak A (Reverse)
   (P Vein A)
- Pulmonary Vein Peak Velocity (P Vein D, P Vein S)
- Systemic Vein Peak Velocity (PDA Diastolic, PDA Systolic)
- Ventricular Septal Defect Peak Velocity (VSD Vmax)
- Atrial Septal Defect (ASD Diastolic, ASD Systolic)
- Pulmonary Vein A-Wave Duration (P Vein A Dur)
- IsoVolumetric Relaxation Time (IVRT)
- IsoVolumetric Contraction Time (IVCT)

#### **Doppler Mode measurements (cont.)**

#### System (cont.)

- Pulmonary Vein S/D Ratio (P Vein D, P Vein S)
- Ventricular Septal Defect Peak Pressure Gradient (VSD Vmax)
- Pulmonic-to-Systemic Flow Ratio (Qp/Qs)

#### Tricuspid valve

- Tricuspid Regurgitant Peak Pressure Gradient (TR Vmax)
- Tricuspid Valve Peak Pressure Gradient (TV Vmax)
- Tricuspid Regurgitant Peak Velocity (TR Vmax)
- Tricuspid Valve Peak Velocity (TV Vmax)
- Tricuspid Valve Velocity Peak A (TV A Velocity)
- Tricuspid Valve Velocity Peak E (TV E Velocity)
- Tricuspid Regurgitant Mean Pressure Gradient (TR Trace)
- Tricuspid Valve Mean Pressure Gradient (TV Trace)
- Tricuspid Regurgitant Mean Velocity (TR Trace)
- Tricuspid Regurgitant Velocity Time Integral (TR Trace)
- Tricuspid Valve Mean Velocity (TV Trace)
- Tricuspid Valve Velocity Time Integral (TV Trace)
- Tricuspid Valve Time to Peak (TV TTP)
- Tricuspid Valve Ejection Time (TV Acc/ Dec Time)
- Tricuspid Valve A-Wave Duration (TV A Dur)
- QRS Complex to End of Envelope (Q-TV Close)
- Tricuspid Valve Pressure Half Time (TV PHT)
- Stroke Volume by Tricuspid Flow (TV Planimetry, TV Trace)
- Tricuspid Valve E-Peak to A-Peak Ratio (TV E/A Velocity)

#### **Color Flow Mode measurements**

#### Aortic valve

- Proximal Isovelocity Surface Area: Regurgitant Orifice Area (AR Radius)
- Proximal Isovelocity Surface Area: Radius of Aliased Point (AR Radius)
- Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace)
- Proximal Isovelocity Surface Area: Regurgitant Volume Flow (AR Trace)
- Proximal Isovelocity Surface Area: Aliased Velocity (AR Vmax)

#### Color Flow Mode measurements (cont.)

#### Mitral valve

- Proximal Isovelocity Surface Area:
   Regurgitant Orifice Area (MR Radius)
- Proximal Isovelocity Surface Area: Radius of Aliased Point (MR Radius)
- Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace)
- Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace)
- Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax)

#### **Combination Mode measurements**

#### Aortic valve

- Aortic Valve Area (Ao Root Diam, LVOT Vmax, AV Vmax)
- Aortic Valve Area by Continuity Equation by Peak Velocity (Ao Root Diam, LVOT Vmax, AV Vmax)
- Stroke Volume by Aortic Flow (AVA Planimetry, AV Trace)
- Cardiac Output by Aortic Flow (AVA Planimetry, AV Trace, HR)
- Aortic Valve Area by Continuity Equation VTI (Ao Root Diam, LVOT Vmax, AV Trace)

#### Left ventricle

- Cardiac Output, Teichholz/Cubic (LVIDd, LVI Ds, HR)
- Cardiac Output Two-Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)
- Cardiac Output Four-Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)
- Ejection Fraction Two-Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs)
- Ejection Fraction Four-Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs)
- Left Ventricle Stroke Volume, Single Plane, Two-Chamber/Four-Chamber, Area-Length (LVAd, LVAs)
- Left Ventricle Stroke Volume, Single Plane, Two-Chamber/Four-Chamber, Method of Disk (Simpson) (LVIDd, LVIDs, LVAd, LVAs)
- Left Ventricle Volume, Two-Chamber/ Four-Chamber, Area-Length (LVAd, LVAs)

#### **Combination Mode measurements (cont.)**

## Left ventricle (cont.)

- Ejection Fraction, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)
- Left Ventricle Stroke Volume, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)
- Left Ventricle Volume, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)
- Left Ventricle Stroke Index, Single Plane, Two-Chamber/Four-Chamber, Area-Length (LVSd, LVSs and BSA)
- Left Ventricle Volume, Single Plane, Two-Chamber/Four-Chamber, Method of Disk (LVAd, LVAs)
- Left Ventricle Volume, Apical View, Long Axis, Method of Disk (LVAd, LVAs)

#### Mitral valve

- Stroke Volume by Mitral Flow (MVA Planimetry, MV Trace)
- Cardiac Output by Mitral Flow (MVA Planimetry, MV Trace, HR)

#### Pulmonic valve

- Stroke Volume by Pulmonic Flow (PV Planimetry, PV Trace)
- Cardiac Output by Pulmonic Flow (PV Planimetry, PV Trace, HR)

#### Tricuspid valve

 Cardiac Output by Tricuspid Flow (TV Planimetry, TV Trace, HR)

#### **Cardiac worksheet**

Parameter: lists the mode, the measurement folder, and the specific measurement

Measured Value: Up to six measurement values for each item. Average, maximum, minimum, or last

#### **Generic study in cardiology**

Stroke Volume (SV)

Cardiac Output (CO)

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## **LOGIQ Fortis**<sup>™</sup>

## Probe Guide



**Featuring XDclear**<sup>™</sup> **Technology** 

urological, transcranial, cardiac, and small parts applications.

	Description	Applications	FOV	Bandwidth	Biopsy Guide	Volume Navigation
	CONVEX					
C1-6-D C1-6VN-D*	XDclear broad-spectrum convex probe	Abdominal, Obstetrics, Gynecology, Vascular, Musculoskeletal	80°	1 – 6 MHz	Multi-angle disposable with a reusable bracket	Yes  * Internal VNav sensor, does not require an external bracket
C2-9-D C2-9VN-D*	XDclear broad-spectrum convex probe	Abdominal, Obstetrics, Gynecology, Pediatrics, Vascular, Musculoskeletal	80°	2 – 9 MHz	Multi-angle disposable with a reusable bracket	Yes *Internal VNav sensor, does not require an external bracket
C3-10-D	XDclear broad-spectrum convex probe	Neonatal, Pediatrics, Vascular, Small Parts	95°	2 – 11 MHz	No	Yes
IC5-9-D	Broad-spectrum micro-convex intra-cavitary probe	Obstetrics, Gynecology, Urology	180°	3 – 10 MHz	Single-angle disposable or single-angle reusable	Yes
C2-7-D C2-7VN-D*	Broad spectrum convex probe	Abdominal	110°	1 – 6 MHz	Multi-angle disposable with reusable bracket options	Yes *Internal VNav sensor, does not require an external bracket
	LINEAR					
L2-9-D L2-9-VN-D*	XDclear broad-spectrum linear probe	Vascular, Small Parts, Musculoskeletal, Neonatal Cephalic, Pediatric, Abdominal, Obstetrical	44 mm	2 – 10 MHz	Multi-angle disposable with a reusable bracket	Yes  * Internal VNav sensor, does not require an external bracket
L3-12-D	Broad-spectrum linear probe	Abdominal, Obstetric, Vascular, Musculoskeletal, Small Parts, Pediatric, Neonatal	51 mm	2 – 11 MHz	Multi-angle disposable with a disposable bracket	Yes
L6-24-D	Broad-spectrum linear probe	Musculoskeletal	26 mm	6 – 20 MHz	No	No
L8-18i-D	Broad-spectrum linear probe	Small Parts, Vascular, Intraoperative, Neonatal	25 mm	4 – 15 MHz	No	Yes
ML6-15-D	Broad-spectrum linear matrix array probe	Vascular, Small Parts, Neonatal, Pediatrics	50 mm	4 – 16 MHz	Multi-angle disposable with a reusable bracket	Yes



Product may not be available in all countries and regions. Full product technical specifications 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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## **System overview:**

## **LOGIQ Fortis**

#### **Probes:**

- C1-6(VN)-D
- C2-9(VN)-D
- C3-10-D
- C2-7(VN)-D
- L2-9(VN)-D
- L6-24-D
- L8-18i-D
- L3-12-D
- ML6-15-D
- M5Sc-D
- 6S-D
- 6TC-RS
- IC5-9-D
- RIC5-9-D
- RAB6-D
- BE9CS-D
- P2D
- P6D

#### **SW Options:**

- Coded Contrast Imaging
- UGAP
- Shearwave Elastography
- · Strain Elastography
- Cardiac AFI
- DVR
- Report Writer
- Stress Echo
- Tricefy
- LOGIQ Apps
- Scan Assistant
- Auto IMT
- B-Steer+
- Flow QA
- Measure Assist Breast
- Measure Assist OB
- SRI HD Type 2
- SonoNT/SonoIT

#### **HW Options:**

- CW Doppler
- Pencil CW Kit
- Realtime 4D
- Power Assistant
- Scan on Battery
- Wireless LAN
- S-Video Kit

#### **ECG Options:**

- · ECG incl. Auto EF, TVI
- ECG cord IEC & AHA

#### **Volume Navigation:**

- Volume Navigation
- **Dual Probe Sensors**
- · Navigation Stand
- eTrax Tracker
- Virtual Tracker
- OmniTrax (Active Tracker) Kit
- · MR Active Tracker
- V Nav brackets

#### **Printers:**

- BW printer UP-D898DC
- Color printer UP-D25MD
- Inkjet printer

#### **Accessories:**

- Tray Box
- **Probe Holder Inserts**
- Footswitch 3 buttons
- Protective cover
- UPS

#### **Veterinary Use:**

- Veterinary Kit
- Probe Label Kit

**Peripherals** 

Accessories

		SA 25	
Product Tree LOC	GIQ Fortis		EU offering only
Item Number	Description	Description / Comments	EM / FSA offering only
	Base System		
H43302LA	LOGIQ Fortis Console		
Standard Feat	cures (see datasheet for more information)		
23.8" Wide-screen	HDU monitor		
12,1" High-resoluti	on Touch Display		
Power Cord 220V f	or EU		
4 Active Probe Por	ts, 1 Parking port		
Gel-Warmer		Lasting Comments of the Commen	
Mid Cabinet		# 1500 - 1 000 - 1 000 - 1 000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000	
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Privacy & Security	Package – SonoDefense Solution	CONTRACTOR AND 1 10.0 1	
System Overview System	Power Cords. Power cords & Keyboards  Manuals & XDclear Probes  Probes	TEE Biopsy Clinical Pckg. Software Options SaaS Hardware Options Options Peripherals & Accessories Education Use Revise Accessories	

		SA 2/5	
Product Tree LO	OGIQ Fortis		EU offering only
Item Number	Description	Description / Comments	EM / FSA offering only
	Power Cords		
H46342LZ	Power Cord 220V for EU	Just as a replacement - one is included in the standard config	
H46712LM	Power cord UK	Power cord for UK	
H46712LR	Power cord ISRAEL	Power cord for Israel	
H46712LS	Power cord SWISS	Power cord for Swiss	
H46712LT	Power cord DENMARK	Power cord for Denmark	
H46692LK	Power cord DENMARK Grey	Power cord DK STD C13 GRY	
H46722LD	Power cord ITALY	Power cord for Italy - only order if needed, standard EU power cord should be feasible for most Italian installations	
H46712LW	Power cord US	Power cord US	
H46712LN	Power cord South Africa	Power cord South Africa	
	Alphanumeric Keyboards		
H43342LR	AN Keyboard ENGLISH	AN Keyboard ENGLISH	
H43342LS	AN Keyboard GERMAN	AN Keyboard GERMAN	
H43342LT	AN Keyboard FRENCH	AN Keyboard FRENCH	
H43342LW	AN Keyboard GREEK	AN Keyboard GREEK	
H43342LY	AN Keyboard NORWEGIAN	AN Keyboard NORWEGIAN	
H43342LZ	AN Keyboard RUSSIAN	AN Keyboard RUSSIAN	
H43352LA	AN Keyboard SWEDISH	AN Keyboard SWEDISH	
		MODEL MAN	
System Base System	Power Cords. Power cords & Keyboards  Manuals & XDclear Probes  Probes	Paripharals	Appendix A – Sonodefense

**Product Tree LOGIQ Fortis Item Number** Description **Item Number** Description Manuals and Documentation (Hard Copies) Contains: Basic User manual (translated), Advanced Reference Manual (English), Release Notes (translated), Service Manual (English) H43312LA LOGIQ Fortis Italian DOCs Kit H43312LW LOGIQ Fortis Latvian DOCs Kit H43312LB LOGIQ Fortis Bulgarian DOCs Kit H43312LZ LOGIQ Fortis Lithuanian DOCs Kt H43312LC LOGIQ Fortis Croatian DOCs Kit H43322LA LOGIQ Fortis Norwegian DOCs Kit H43312LE H43322LC LOGIQ Fortis Czech DOCs Kit LOGIQ Fortis Euro Port DOCs Kit H43322LD H43312LF LOGIQ Fortis Danish DOCs Kit LOGIQ Fortis Polish DOCs Kit H43312LG LOGIQ Fortis German DOCs Kit H43322LE LOGIQ Fortis Romanian DOCs Kit H43322LF H43312LH LOGIQ Fortis Dutch DOCs Kit LOGIQ Fortis Serbian DOCs Kit H43312LJ H43322LG LOGIQ Fortis Swedish DOCs Kit LOGIQ Fortis English DOCs Kit H43312LK LOGIQ Fortis Estonian DOCs Kit H43322LH LOGIQ Fortis Slovakian DOCs Kit H43312LL H43322LJ LOGIQ Fortis French DOCs Kit LOGIQ Fortis Slovenian DOCs Kit H43312LM H43322LK LOGIQ Fortis Spanish DOCs Kit LOGIQ Fortis Finnish DOCs Kit H43312LN H43322LL LOGIQ Fortis Greek DOCs Kit LOGIQ Fortis Turkish DOCs Kit H43312LP LOGIQ Fortis Hungarian DOCs Kit H43322LM LOGIQ Fortis Russian DOCs Kit H43322LN H43312LS LOGIQ Fortis Ukrainian DOCs Kit LOGIQ Fortis R3 Advanced Reference Manual - English LOGIQ Fortis R3 Advanced Reference Manual - French H43322LS H43322LT LOGIQ Fortis R3 Kazakhstan Docs Kit taining a leaflet with instructions translated into all languages and a USB Stick with all User

**Note: Electronic Instructions for Use** Documentation are included with every sys

Above DOCs Kits are only needed if a customer requires a printed copy of the documents I included in the eIFU).

<u>System</u>
<b>Overview</b>

**Base** <u>System</u> **Power Cords.** Power cords & Keyboards

Manuals & **Documentation**  **XDclear Probes** 

**Probes** 

TEE probe

**Biopsy Guides** 

**Clinical** Pckg.

<u>Software</u>

**Options** 

<u> Hardware</u> **Options** 

V Nav **Options** 

**Peripherals Accessories** 

**Education** 

Veterinary **Use** 

Revision **History** 

Appendix A -**Sonodefense** 

**EU offering only** 

**EM / FSA offering only** 

		SA 25	
Product Tree LO	GIQ Fortis		EU offering only
Item Number	Description	Description / Comments	EM / FSA offering only
	XDclear Curved Array Probes		
H40472LT	C1-6-D XDclear Convex Array Probe	*Note:	
H40472LW	C1-6VN-D 'VNav Inside' XDclear Convex Probe*	'VN' Probes also work on systems without V Nav Option	
H40462LN	C2-9-D XDclear Convex Array Probe	Systems without vivav Option	
H40472LY	C2-9VN-D 'VNav Inside' XDclear Convex Probe*		
H40482LB	C3-10-D XDclear Microconvex Probe	H4915P Probe Holder Insert 2 recommended	
	XDclear Linear Array Probes		
H44901AI	L2-9-D XDclear Linear Array Probe		
H44901AJ	L2-9VN-D 'VNav Inside' XDclear Linear Array Probe*		
	XDclear Sector Phased Array Probes		
H44901AE	M5Sc-D XDclear Sector Phased Array Probe	CW Doppler requires H43342LA CW Doppler Kit	
	XDclear Pobe Enabler		
H46612LS	Advanced Probes	SW option to enable XDclear probes; mandatory with following probes: H40472LT, H40472LW, H40462LN, H40472LY, H40482LB, H44901AI, H44901AJ, H44901AE	
System Overview System	Power Cords, Power cords Keyboards  Manuals & Probes Probes Probes		ision Appendix A – Sonodefense

Product Tree LO	GIQ Fortis			EU offering only
Item Number	Description	Description / Comments		EM / FSA offering only
	2D Curved Array Probes			
H46422LM	C2-7-D Probe			
H46422LN	C2-7VN-D Probe*	*Note:		
	2D Linear Array Probes		'VN' Probes also work on systems without V Nav Option	
H40452LG	ML6-15-D Active Matrix Linear Array Probe			
H40452LL	L8-18i-D Linear Array Hockeystick Probe	H43352LC Small Probe Holder recommended		
H48062AA	L3-12-D Probe Linear Probe			
H4920HF	L6-24-D Linear Array Hockeystick Probe	H43352LC Small Probe Holder recommended		
	2D Sector Phased Array Probes			
H45021RR	6S-D Sector Probe	CW Doppler requires H43342LA CW Doppler Kit		
	2D Endocavitary Probes			
H40442LK	IC5-9-D Micro Convex Endocavitary Probe			
H40482LE	BE9CS-D Biplane Endocavitary Probe			
	4D Mechanical Probes			
H48681MG	RAB6-D Volume Convex Probe	Requires H43342LB Realtime 4D Option Kit		
H48651MS	RIC5-9-D Volume Endocavitary Probe	Requires 1145542LB Reditilité 4D Option Rit		
	Pencil Probes			
H4830JE	P2D - 2 MHz CWD Pencil Probe	Requires H43342LA CW Doppler Kit and H43342LJ Pencil CW Installation Kit		
H4830JG	P6D - 6 MHz CW Pencil Probe	Requires H43342LA CW Doppler Kit and H43342LJ Pencil CW Installation Kit		
tem Base rview System	Power Cords. Power cords & Keyboards  Manuals & XDclear Probes  Probes	TEE Biopsy Clinical Software Options SaaS Hardware Options Peripher & Accessor	Education Use Histo	

	GIQ Fortis						EU offering on
Item Number	Description	Description / Comments			EM / FSA offering		
	TEE Adult Probe						
H45551ZE	6Tc-RS Multi-Plane TEE Probe	CW Doppler req	quires H43342LA CW Γ	oppler Kit			0
H46352LK	TEE RS-DLP Adapter	MANDATORY!	MANDATORY!				
	TEE Probe Accessories						
H45551NM	TEE Storage Rack		Strongly recommended to order with the TEE probe For storage of Adult and Pediatric TEE probes, wall mounted unit. Store (and dry) disinfected probes, ready for the next use.				<b>—</b>
H45521CK	TEE Scan-head protection cover	ADULT TEE SCAI	NHEAD PROTECTION (	COVER			
H45511EE	TEE Clip-on Bite Guard Adult	TEE clip-on bite	guard for adults, keyh	ole type			81
H45521CB	TEE Clip-on Bite Guard Adult OR	TEE clip-on bite	guard for adults, U-fo	rm type - Operating	g Room use		
H45521JH	Conventional Bite Guard Adult	TEE clip-on bite	TEE clip-on bite guard for adults, U-form type				
H45531HS	Bite Hole Indicator	Bite Hole Indica	tor for TEE Probes; Ty	pe: KZ200800			
		TEE Probe u	ser manuals				
H45531RA	TEE Probes User Manual - English German French Chinese		H45541PP		TEE Probes User Manual -	Czech	Bite Hote In
H45531RD	TEE Probes User Manual - Italian		H45541PQ		TEE Probes User Manual - L	Latvian	<u>A</u> 2
H45531RE	TEE Probes User Manual - Spanish		H45541PR		TEE Probes User Manual - Lit	huanian	(2) - Time course are (3) - Time course are (3) - Time course are
H45531RJ	TEE Probes User Manual - Swedish		H45541PS		TEE Probes User Manual - 1	Turkish	
H45531RK	TEE Probes User Manual - Norwegian		H45541PT		TEE Probes User Manual - E	stonian	
H45531RL	TEE Probes User Manual - Danish		H45551ZQ		TEE Probes User Manual - S	Serbian	
H45531RM	TEE Probes User Manual - Polish		H45551ZR		TEE Probes User Manual - Bu	ulgarian	
H45531RN	TEE Probes User Manual - Finnish		H45561RH		TEE probes User manual - C	roatian	
H45531RP	TEE Probes User Manual - Greek		H45581AN		TEE Probes User Manual - Po	rtuguese	
H45531RQ	TEE Probes User Manual - Russian		H45581PL		TEE Probes User Manual - Ul	krainian	
H45531RR	TEE Probes User Manual - Dutch		H45581PT		TEE Probes User Manual - Sl	ovenian	
H45541PL	TEE Probes User Manual - Hungarian		H45601HR		TEE Probes User Manual - H	Kazakh	
H45541PM	TEE Probes User Manual - Slovak						
	TEE Probes User Manual - Romanian						<u> </u>

Product Tree LO	GIQ Fortis		EU offering or
Item Number	Description	Description / Comments	EM / FSA offering
	Biopsy Guides (Biopsy Guides only, not for VNAV)		
	Biopsy Options 2D Curved Array		
H4917VB	C1-6 Biopsy Starter Kit (Verza)		
H40482LK	C2-7 Biopsy Kit		
H40482LL	C2-7 Stainless Biopsy Kit		240
H4913BA	C2-9 Biopsy Starter Kit		
	Biopsy Options 2D Linear Array		
H44901AM	L2-9-D Biopsy Starter Kit (Verza)		_
H40432LJ	ML6-15-D Biopsy Starter Kit		
H48302AA	L3-12 Biopsy Kit		
	Biopsy Options 2D Sector Phased Array		
H45561FC	M5Sc-D Biopsy Bracket		
	Biopsy Options 2D Endocavity		
E8385MJ	E8C/IC5-9 Short Biopsy Kit (disposable)	This Kit Contains 24 Disposable Biopsy Needle Guides	
H40412LN	E8C/IC5-9 Re-usable Biopsy Device	One stainless steel single angle, reusable biopsy kit for E8CS/E8C/E721/IC5-9 transducers.	7
E8387M	Sterile Disposable Biopsy Needle Guide Kit for BE9C Probe	This Kit Contains 24 Disposable Biopsy Needle Guides (Protek)	
H42742LJ	BE9CS Biopsy Kit	This Kit Contains 24 Disposable Biopsy Needle Guides (Civco)	
E8387MA	Reusable Biopsy Needle Guide for BE9C Probe	One stainless steel single angle, reusable biopsy kit	
	Biopsy Options 4D		
H48681ML	RAB6-D Biopsy Starter Kit	None sterile multi angle bracket (Depth crossing w/ probe axis at 4, 6, 8 cm) & 5 needle guide kits	
H46721R	RIC5-9-D Reusable Biopsy Guide	Reusable Stainless Steel: PEC 63 (<1.6 mm)	
H48691Z	RIC Probe Disposable Biopsy Guide with Latex Cover	Civco - 24 Sterile endocavity needle guide kits with latex covers	
H48681GF	RIC Probe Disposable Biopsy Guide without latex covers	Civco - 24 Sterile endocavity needle guide kits without covers	
stem Base rview System	Power Cords. Power cords & Keyboards  Manuals & XDclear Probes  Probes	FEE Biopsy Clinical Pckg. SaaS Options SaaS Options Op	Appendix A – Sonodefense

fering only

offering only





		5A 275	
Product Tree LO	GIQ Fortis		EU offering only
Item Number	Description	Description / Comments	EM / FSA offering only
	Software Options		
	Care Area Packages		
H43332CA	Cardiac Package	The Cardiac Package includes the following advanced tools: ECG Kit (incl. AutoEF & TVI), IEC ECG cable, Cardiac AFI, Stress Echo, AutoIMT, Flow QA, Comapre Ass., Scan Ass.	
H43332BR	Breast Package	The Breast Package includes the following advanced tools: B-Flow, Coded Contrast, Shearwave Elastography, Elastogr	
H43332OB	OB Package	The OB Package includes the following advanced tools: Realtime 4D Kit, SRI HD type 2, OmniView, STIC, TUI; VCI-Static, VOCAL II, SonoNT/IT, Measure Ass. OB, Compare Ass., Scan Ass., LOGIQ Apps, Tricefy	
H43332MS	MSK Package	The MSK Package includes the following advanced tools: B-Flow, Shearwave Elastography, B Steer+, Compare Ass., Scan Ass., LOGIQ Apps	
Cuntom	Power Cords, Manuala S. VPales	FE Rioney Clinical Software What Peripherals Voterinary Pour	
System Base System	Power cords  & Keyboards  Manuals & Manuals & Probes  Probes  Probes	FEE Biopsy Clinical Pckg. Software Options SaaS Options Option	

Product Tree LOG	duct Tree LOGIQ Fortis				
Item Number	Description	Description / Comments			
	Software Options 1/2				
	<u>Connectivity</u>				
H46622LA	DICOM				
H46622LL	Adv. Security	Vulnerability Scan Option for Nessus Server communication			
H46622LT	Tricefy	Trice Imaging Ultrasound Cloud Solution			
H46622LW	LOGIQ Apps	Requires H46612LH Wireless Option Kit for Bluetooth capability			
H4918DR	DVR	Digital Video Recorder			
	<u>Imaging</u>				
H46612LY	B-Flow				
H4920SR	SRI HD Type 2	For OB/Gyn application only			
H46612LS	Advanced Probes	To enable XDclear probes			
	Comprehensive Tools				
H43332LA	Coded Contrast	Incl. TIC Analysis			
H43332LB	Parametric Imaging				
H46622LE	Shear Wave Elastography				
H46622LH	UGAP	Ultrasound Guided Attenuation Parameter			
H43332LE	Hepatic Assistant	Both SWE (H46622LE) and UGAP (H46622LH) are required			
H43332LC	Strain Elasto				
H43332LD	Elasto QA	Elastography quantification tool			
H46622LS	Stress Echo				
H46622LN	Cardiac AFI	Cardiac Strain			
H46622LB	FLOW QA	Quantification tool for Color Flow and Power Doppler imaging			
H46612LW	B Steer+	B mode steering image to help improve needle visualization/reflectivity			
stem <u>Base</u> erview <u>System</u>	Power Cords. Power cords & Keyboards  Manuals & XDclear Probes  Probes  Probes	TEE Biopsy Clinical Software Options SaaS Hardware Options Options Options Peripherals & Education Use Revision Accessories			

<u>System</u>

<u>Overview</u>

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**History** 

Appendix A -

Sonodefense

**EU offering only** 

EM / FSA offering only

		SA 25	
Product Tree LOG	GIQ Fortis		EU offering only
Item Number	Description	Description / Comments	EM / FSA offering only
	Software Options 2/2		
	Concise Workflow		
H46622LZ	Scan Assistant		
H46612LZ	Compare Assistant		
H46622LR	Report Writer		
H43332LL	Thyroid Productivity	Thyroid-specific measurement package allows user to enter TI-RADS criteria/assessment	
H43332LM	Breast Productivity	Breast-specific measurement package allows user to enter BI-RADS criteria/assessment	
H46622LC	Measure Assist Breast		
H46622LD	Measure Assist OB		
H46612LT	AUTO IMT		
H46622LJ	SonoNT/SonoIT	Sonography based Intracranial Translucency & Nuchal Translucency Measurement	
	<u>3D/4D</u>		
H43332LF	Omni View	OmniView helps improve the contrast resolution and visualization of the rendered anatomy in any image plane	
H43332LG	STIC	Advanced STIC (Spatio-Temporal Image Correlation)	
H43332LH	TUI	Tomographic Ultrasound Imaging (TUI) enables volume data to be viewed in multiple slices	
H43332LJ	VCI-Static	Static Volume Contrast Imaging is a volume acquisition technique which helps improve B-mode contrast resolution and speckle suppression	
H43332LK	VOCAL_II	VOCAL provides both contour detection (manual, semi-automated or automated) and automated volume calculation	
System Base System	Power Cords, Power cords & Keyboards  Manuals & XDclear Probes  Probes  Probes		ision Appendix A – Sonodefense

Product Tree LOGIQ Fortis					
Item Number	Description	Description / Comments			
	Software Options				
	Breast Assistant powered by Koios DS™				
H46622LY	KOIOS SW*	Breast Assistant SW option powered by Koios			
	Software As A Service Option				
H4919KI	LOGIQ Koios Installation Service*	Mandatory to be ordered for Koios Software Installation on Customer on-premises Server (1st time only)			
H4919SO	LOGIQ Breast Assistant Scanner only Subscription*	<ul> <li>One Year Subscription for 100 breast exams on Scanner Only</li> <li>Must order a minimum of 6 per customer</li> <li>12 months plus 2 additional months at no charge (first year only)</li> </ul>			
H4919SP	LOGIQ Breast Scanner and PACS WS Subscription*	- One Year Subscription for 100 breast exams on PACS + Scanner - Must order a minimum of 6 per customer - 12 months plus 2 additional months at no charge (first year only)			

\*LOGIQ™ Breast Assistant powered by Koios DS™ commercial availability is subject to RA clearance in each country and upon regional go-to market strategy"

<u>System</u> **Overview** 

**Base** <u>System</u> Power Cords. Power cords & Keyboards

Manuals & Documentation **XDclear Probes** 

**Probes** 

TEE

**Biopsy** Guides

**Clinical** <u>Software</u> Pckg. **Options** 

<u>Hardware</u> **Options** 

V Nav **Options** 

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**EU offering only** 

**EM / FSA offering only** 

	SEE THE REAL PROPERTY AND ADDRESS OF THE PERSON OF T	PDF 0.20	
Product Tree LOG	GIQ Fortis		EU offering only
Item Number	Description	Description / Comments	EM / FSA offering only
	Hardware Options		
H43342LA	CW Doppler Option kit	- includes SW Option Key in OAC	
H43342LJ	Pencil CW Installation kit	<ul><li>includes SW Option Key in OAC</li><li>Requires H43342LA CW Doppler Option</li></ul>	
H43342LB	Realtime 4D Option kit	- includes SW Option Key in OAC	
H43342LE	Power Assistant Option kit	Exclusive with "H43342LE Scan on Battery Option kit"  Only one option can be selected:	
H43342LD	Scan on Battery Option kit	Exclusive with "H43342LD Power Assistant Option kit" H43342LE OR H43342LD	
H43342LG	Wireless Option kit	- includes SW Option Key in OAC	
H43342LH	S-Video Option Kit		
	ECG Option		
H43342LC	ECG Installation kit	<ul> <li>Requires H43342LP 5inch bay installation kit</li> <li>includes SW Option Key in OAC</li> <li>Includes:</li> <li>Auto Ejection Fraction Option</li> <li>Tissue Velocity Imaging Option</li> </ul>	
H4911JC	ECG cords - IEC Style		
H4910EC	ECG cords – AHA styles	For USA/Emerging Market use	
H45521AL	ECG Cable set ext.	Set of various cables and connectors to enable connection of ECG from stress treadmills and ECG monitors.	
	Cabinet options		
H43342LL	High Cabinet		
H43342LM	Low Cabinet	Refer to appendix B for cabinet compatibility	
H43342LN	Side Cabinet	<u>compatismey</u>	
H43342LP	5inch bay Installation kit	Mandatory to be ordered with H43342LC and/or H43342LF (one kit)	
vstem Base erview System	Power Cords. Power cords & Keyboards  Manuals & YDclear Probes  Probes  Probes	TEE Biopsy Clinical Pckg. Software Options SaaS Description	

<u>Overview</u>

		S/A 2/5	
Product Tree LOG	GIQ Fortis		EU offering only
Item Number	Description	Description / Comments	
	Volume Navigation		
	V Nav Hardware Options		Server 1
H43372LK	Volume Navigation Kit	<ul> <li>includes SW Option Key in OAC</li> <li>Requires H43342LP Sinch bay installation kit</li> </ul>	
H4913PS	V Nav Dual Probe Sensors	For V Nav bracket probes: C3-10, IC5-9, ML6-15, L8-18i, M5Sc	
H4908NS	Volume Navigation Stand		
	V Nav Brackets		
H40482LF	C3-10 V Nav Holder St Kit		Scives (
H4908NF	IC5-9 Volume Navigation Bracket	C1-6 and C2-9 V Nav brackets are not supported on LOGIQ Fortis.	
H40432LK	ML6-15 Volume Navigation Bracket	Only C1-6VN-D & C2-9VN-D probes are supported in V Nav.	
H4908NH	L8-18i-D V Nav Bracket		
H4908NM	M5Sc-D V Nav Bracket		
	V Nav Needle Tracking Options		
H4910NT	V Nav eTRAX 16/18G Starter Kit	For use of 18G biopsy needles	
H4913NT	V Nav eTRAX 18/20G Starter Kit	For use of 20G biopsy needles	
H4913NU	V Nav eTRAX 12/14G Starter Kit	For use of 14G biopsy needles	
H4913NV	V Nav eTRAX 14/16G Starter Kit	For use of 16G biopsy needles	
H4910NY	V Nav Virtual Needle Tracker	VirtuTRAX Instrument Navigator (10FR-14GA)	€ SIME O
H4911NG	Virtual Tracker Sensor	General Purpose Electromagnetic Sensor	
H4913NS	V Nav Needle Tracking storage insert		
	V Nav Active Tracker		
H4913AT	omniTRAX Active Patient Tracker Kit	Non-sterile reusable general purpose electromagnetic sensor with omniTRAX Patient Tracker 10.4cm (4.1") (5)	
H4915MT	omniTRAX MR Active Patient Tracker Kit	Non-sterile reusable general purpose electromagnetic sensor with omniTRAX MR Patient Tracker 10.4cm (4.1") (5)	
System Base System	Power Cords Power cords & Keyboards  Manuals & XDclear Probes  Probes	TEE Biopsy Clinical Pckg. Software Options SaaS Hardware Options Options Peripherals & Accessories	<u>Veterinary</u> <u>Revision</u> <u>Appendix A – Sonodefense</u>

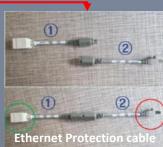
Product Tree LOG	Q Fortis	
Item Number	ber Description Description / Comments	
	Peripherals	
H43342LK	Onboard Printer UP-D898DC	Onboard Installation
H4911JT	Sony UP-D25MD Color Printer	A6 Digital Color Printer for off-board installation, incl. EU 220V power cord; an appropriate power cord is required from the power cord list.
H4918RP	LOGIQ Inkjet Printer	For off-board installation, HP Officejet Pro 8210 Printer incl. USB-cable 2.0
	Accessories	
H46732LF	USB FOOTSWITCH 3 Button	
H43352LC	Small Probe Holder	
H43352LD	VERTICAL TV PROBE Holder	Position on L/H side of the OPIO
H43352LE	TVTR Probe Holder	
H44412LA	PROBE CABLE HANGER	
H43372LF	TRAY BOX	H43372LG is required for installation
H43372LG	TRAY Bracket	Brackets for tray box; H43372LF is required
H4918DC	LOGIQ Protective Cover	LOGIQ padded canvas cover to protect the ultrasound system for transport or storage
H43272LJ	Ethernet protection cable	
	UPS	
H4921UP	Powervar 1.44kVA 230V UPS medical grade	Must order H46672LM and specified power cord {H48502AW / H48512AF / H48512AJ / H48532AY} at same time
H46672LM	UPS Document Kit	Mandatory to be ordered if H4921UP is selected
H48502AW	AC Power Cord Europe/Korea	For use with H4921UP
H48512AF	AC Power Cord UK/Ireland	For use with H4921UP
H48512AJ	AC Power Cord Switzerland	For use with H4921UP
H48532AY	Power Cord for Denmark, Hospital Grade C13 RED	For use with H4921UP
H48532AY	Power Cord for Denmark, Hospital Grade C13 RED	For use with H4921UP

**EU offering only** 

M / FSA offering only







<u>Peripherals</u>

**Accessories** 





## **LEAD Mission**

Developing Skills and Improving Knowledge of Leadership Ultrasound

## **LEAD Vision**

Brining Experts together and Building a LOGIQ Super Users Network

GE Healthcare Ultrasound Middle East offers various educational experiences which aims to develop ultrasound skills, improve knowledge of advanced ultrasound and elevate diagnostic confidence.

H4917LC

**LEAD Course - GIUS** 

For Emerging Markets offering only

Product Tree LOGIQ Fortis						
Item Number	Description	Description / Comments				
	Veterinary Use Items					
H43352LB	Console Veterinary Kit	Contains Vet console labels and multi-language Vet User Manual Addendum				
H48492AW	Vet Probe Caution Labeling Kit	One Kit to be ordered for each probe				

## **Caution:**

**System** 

**Overview** 

**Base** 

**System** 

**Power Cords.** 

Power cords

& Keyboards

Manuals &

**Documentation** 

**XDclear** 

**Probes** 

TEE

**Probes** 

**Biopsy** 

Guides

For Veterinary use, dedicated VET Kits containing console and probe labels indicating that the system and probes are for veterinary use only <u>must</u> be ordered with the console and for each probe. A dedicated 'VET Addendum' to the Basic User Manual is also included.

**Clinical** 

Pckg.

**Software** 

**Options** 

Labels will be applied to the console and probes by either the Make Center or the LPC before shipping the system/probes. It is not allowed to ship/install any system and probe for Veterinary usage not being labeled "For Veterinary Use Only"

EU offering only

EM / FSA offering only

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Sonodefense

**Peripherals** 

**Accessories** 

V Nav

**Options** 

<u>Hardware</u>

**Options** 

# LOGIQ Fortis Product Tree Revision History

Rev	Date	Created by	Description of Changes	
1	Dec 03, 2021	Jens Heimann	Initial Release	
2	Feb 08, 2022	Jens Heimann	Corrected descriptions, typos, requirements Added UPS (page17)	
3	Mar 01, 2022	Jens Heimann	Added Care Area Packages (page 11) Replaced Volume Navigation Kit H43342LF by H43372LK (page 16); dual probe sensor cable is no longer included Added Appendix B Cabinet Compatibility	
4	Mar 08, 2022	Jens Heimann	Corrected Hcat for Strain Elastography to H43332LC (page 12)	
5	May 12, 2022	Jens Heimann	Added H45521AL ECG Cable Set Kit ext. (page 15)	



## Appendix A ....

SonoDefense is part of the main console and not an option.

## Defense-in-depth strategy

SonoDefense is designed for maximum security protection with a defense-indepth strategy that incorporates security controls deployed in multiple layers. This approach enhances security by protecting the system against any particular attack using several independent methods.

Limits what can be run on the LOGIQ" E10

- · Customizable, role-based access
- Federated Identity Management
- Session management
- · Auditing
- · Secure remote access
  - · Customizable patient data encryption
  - · Enterprise wireless encryption
  - · IPv6 Internet Protocol address standard



LOGIQ E10 R2 Customer Presentation | March 20, 2020

Windows is a registered trademark of Microsoft Corporation. LOGIO is a trademark of General Electric Company.

cacility Ecosystem

Network Firewall

windows 10 Hardening

Malware Threat Protection

Singernote Access Many

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Reduces potential

points of

attack

**Power Cords. Base** Power cords **System** & Keyboards

**System** 

**Overview** 

Manuals & **Documentation**  **XDclear Probes** 

**Probes** 

TEE **Biopsy Guides**  **Clinical** Pckg.

**Software Options** 

**Hardware Options** 

V Nav **Options** 

**Peripherals Accessories** 

Blocks unused communication channels

Disables services

in the Windows®

10 OS that are not needed by

the LOGIQ E10

Seamlessly

integrates into your facility's security ecosystem

**Education** 

**Veterinary** 

**Revision** Appendix A -**Sonodefense History** 

## Appendix B **Cabinet Compatibility Overview**

RIGHT TRANS THYROID

Cabinet	Side	Device Installation Location (Bay)			Note					
Туре	Cabinet?	Α	B-Upper	B-Lower	C-Upper	C-Lower	D	Е	F	Note
	No	DVD	-		-		-	-		
		DVD	-		-		-	Open	BW	
Low		DVD	-		-		-	P-IO (ECG)	Open	
Low	Yes	DVD			-		-	V-Nav	Open	
		DVD					-	V-Nav	BW	
		DVD					-	P-IO (ECG)	BW	
	No	DVD	Co	ver	-		-	-		Note 1
		DVD	В	W	-		-	-		
		DVD	P-IO (ECG)	Cover	-		-	-		
Mid		DVD	V-Nav	Cover	-		-	-		ì
WIG		DVD	P-IO (ECG)	V-Nav	-		-	-		
		DVD	P-IO (ECG)	Cover	-		-	Open	BW	
	Yes	DVD	V-Nav	Cover	-		-	Open	BW	
		DVD	P-IO (ECG)	V-Nav			-	Open	BW	
		DVD			P-IO (ECG)	Cover	BW	-		
High	No	DVD			V-Nav	Cover	BW	-		
		DVD			P-IO (ECG)	V-Nav	BW			



Note 1: Mid cabinet with DVD Drive and cover on device bay is standard LOGIQ Fortis configuration.

## **GE** Healthcare

# Vscan Air<sup>™</sup> Data Sheet

Vscan Air is a battery-operated general-purpose diagnostic ultrasound imaging system for use by qualified and trained healthcare professionals or practitioners. It enables ultrasound imaging guidance, visualization and measurement of anatomical structures and fluid.

Vscan Air consists of a dual-headed probe, which integrates both curved and linear array transducers, and an app that can be installed on Android $^{\text{M}}$  or iOS $^{\text{@}}$  mobile devices.

Its pocket-sized portability and simplified user interface enables integration into training sessions and examinations in professional healthcare facilities (ex. hospital, clinic, medical office, home environment, road/air ambulance and in other environments described in the product user manual).

The information can be used for basic/focused assessments and adjunctively with other medical data for clinical diagnosis purposes during routine, periodic follow-up, and triage assessments for adult, pediatric and neonatal patients. Vscan Air can also be useful for interventional guidance.

Vscan Air customers have access to the Vscan web portal, including online access to product and product usage information for selected clinical scenarios.





## **Probe Characteristics**

128 physical channel beamforming

Black-and-white mode for displaying anatomy in real-time

Color-coded overlay for real-time blood flow imaging

Harmonic imaging for increased signal-to-noise ratio and reduced artifacts from side lobes, grating lobes and reverberations, resulting in superior tissue definition and reduced speckle artifacts. With the greater penetration of lower ultrasound frequencies, high-quality harmonic imaging at greater depth can be performed.

Selectable centerline marker

Selectable focal zone marker

Selectable TGC control with 6 depth-dependent gain controls

Total scan time of 50 minutes with fully charged battery (with 80% black and white, 20% color imaging)

Any Qi-compliant wireless charger can be used to charge probe

Recharge battery in 75 minutes from 10% to 90% battery capacity

Dimensions: 131 x 64 x 31 mm

Weight: 205 +/- 3 grams

IP67 rated

## Curved array transducer for deep scanning

Specific clinical applications and exam types include: abdominal, fetal/obstetrics, gynecological, urology, thoracic/lung, cardiac (adult and pediatric, 40 kg and above), vascular/peripheral vascular, musculoskeletal (conventional), pediatrics, interventional guidance (includes free hand needle/catheter placement, fluid drainage, nerve block and biopsy)

Broad-bandwidth curved array: from 2 - 5 MHz with center frequency of 3.3 MHz

Number of elements: 128

Footprint: 64 mm x 16 mm (lens)

Viewing angle: 60°

Depth: up to 24 cm

### Linear array transducer for shallow scanning

Specific clinical applications and exam types include: vascular/peripheral vascular, musculoskeletal (conventional and superficial), small organs, thoracic/lung, ophthalmic, pediatrics, neonatal cephalic, interventional guidance (includes free hand needle/catheter placement, fluid drainage, nerve block, vascular access and biopsy)

Broad-bandwidth linear array: from 3 - 12 MHz with center frequency of 7.7 MHz

Number of elements: 192

Footprint: 40 mm x 7 mm (lens)

Depth: up to 8 cm

## **User Interface**

The Vscan Air offers ultrasound imaging with a minimized number of keys and intuitive thumb-controllable touchscreen user interface. The Vscan Air app supports portrait as well as landscape mode to optimize image size and ergonomics for different use scenarios.

Single key/gesture to control freeze/unfreeze, store, color on/off, gain and depth control

2 steps to change preset with appropriate transducer

2 steps to start reviewing images from an exam

Presets with optimized settings for imaging different organs. User-selectable default preset for immediate use after starting the app.

Measurements: distance, ellipse

Device configuration and management tools in easy reach through swiping in menu:

- Enablement of TGC controls, preview mode, storage of binary images
- Setting Auto Freeze Time, video duration
- Configuration of probe button function (Freeze or Store)
- Download user manual in selectable language to Vscan Air app
- Diagnostics in Vscan Air app with ability to upload log files to GE server
- Direct access to customer support information
- Link to cloud-based educational materials
- Information about software status of probe and app with ability to un- and re-register

## **Data Storage**

Patient data identification:

- Manual data entry of patient information for an exam
- Select from DICOM Modality Worklist on request.
   Such worklist supports consistent labeling of images,
   video clips and exams before export to DICOM PACS.

#### Exam data on device

Data for up to 500 exams can be stored on mobile device

Data is stored in generic formats: jpg for still frames, mpg for videos

Complementing storage of binary image data can be selected. Such data could be useful for further image analytics in collaboration with GE.

Data is organized as individual examinations with collection of images and can be linked with patient identification

All stored data can be recalled for review

#### Data export

Anonymized images and videos can be shared with other apps available on smart device

Images, video clips or exams with or without patient information can be wirelessly exported in generic formats (jpg, mp4) to shared network folders

Images, video clips or exams with patient information can be wirelessly exported in DICOM format to DICOM PACS

### Supported DICOM services

Verify

Modality Worklist

Store

Storage Commitment

Secure DICOM (TLS)

#### Data security

#### Secured data at rest:

- Vscan Air app starts only after confirmation of mobile device protection with user authentication
- Images and other patient information data are stored in private space of device with no access from other apps on mobile device
- Images are stored on device without embedded patient identification and linked with encrypted patient database
- FIPS 140-2 compliant database encryption (AES-256 bit encryption)
- User selectable, additional PIN protected access to patient data on Vscan Air app
- Wiping off exam data after 10 attempts with incorrect PIN

#### Secured data on the move:

- Images are anonymized before being shared with other apps on the mobile device
- Support of enterprise-grade wireless encryption standards including EAP and WPA2 (PSK)
- TLS encryption with optional peer authentication to support secure DICOM transfer
- Configurable time period for image removal on the device after export to a DICOM PACS server

## **Standard Configuration**

The following items are included in the standard Vscan Air offering:

Vscan Air CL probe

Vscan Air app (Vscan Air for iOS and Vscan Air for Android)<sup>i</sup>

Protective carrying case

Hardcopy Quick Start Guide

Electronic Instruction Use Guide

Wireless charger pad including micro USB cable

Country-specific AC adapter ii

## **Available Accessories**

Hardcopy user manual in different languages

Additional protective carrying case

Additional wireless charger pad

International AC adaptersii

## **Supported Mobile Platforms**iii

#### Operating system options

Android phones and tablets with OS version 9, 10 or 11, device with 0x64 ARM based CPU architecture and 64-bit Kernel, Android open GL ES 3.0, and compatibility with Google Play™ store

iPad and iPhone devices with iOS 13 or 14

#### Screen requirements

Size: from 5 to 20 inches

960 x 640 (or 640 x 960) pixel or more

#### Internal memory requirements

8GB or more

#### Connectivity requirements

IEEE 802.11n

Peer-to-peer connectivity (Android only)

Bluetooth BLE 4.0

#### Security requirements

WPA2™

Data on device must be encrypted and authentication enabled

Verified/Validated mobile devices

The list of the verified and validated mobile devices can found on Vscan family web portal.

## **User Support Tools**

#### Vscan family web portal

Online services to enhance the Vscan Air experience by providing resources, from product information to clinical and service support

Additional educational resources will be posted on the Vscan web portal, including webinars, thought leadership, further online programs and training opportunities

#### Ultrasound education solutionsiv

To help users get familiar with common point-of-care applications and improve ultrasound skills and knowledge, two digital education solutions are available via our partners.

Point of Care Ultrasound FocusClass by 123 Sonography

 This course includes access to five hours of high-quality video content, easy-to-follow hands-on demos, practical clinical examples and proven didactive principles to help increase competence and confidence. This program is designed for primary care covering a variety of ultrasound exam types including cardiac, OB, abdominal, lung and joints

#### SonoSim® 365 for GE Healthcare

SonoSim 365 for GE Healthcare provides convenient ultrasound education through integrated didactic instruction, hands-on training, and knowledge assessment. A portable, virtual ultrasound training experience utilizing real patient cases with a broad spectrum of normal and pathologic conditions. This offering includes a SonoSim probe, SonoSim drive, and your choice of five modules immediately accessible online – choose from a wide selection of modules including anatomy, physiology, and clinical procedures.

## **Safety Conformance**

## Safety classification

Vscan Air CL probe is classified as internally powered medical electrical equipment with type BF applied parts according to IEC 60601-1 $^{\circ}$ 

Vscan Air CL probe is CE-marked according to MDD (93/43/EEC), RED (2014/53/EU), RoHS (2011/65/EU), and is compliant to 2012/19/EU (WEEE)

Vscan Air for Android and Vscan Air for iOS are CE-marked according to MDD (93/42/EEC)

Vscan Air CL probe is NRTL Certified to CAN/CSA-C22.2 No. 60601-1 and ANSI/AAMI ES60601-1.

Wireless charger pad of Vscan Air is certified according to IEC/EN62368-1 and/or IEC/UL/cUL60950-1

Vscan Air conforms to applicable clauses of the following safety standards:

IEC 60601-1 <sup>vi</sup>	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance
IEC 60601-1-2iv	Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirements and tests. (Group One, Class B per CISPR 11 / EN 55011)
IEC 60601-2-37	Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment
IEC 60601-1-11	Medical electrical equipment – Part 1-11: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
IEC 60601-1-12	Medical electrical equipment – Part 1-12: General requirements for basic safety and essential performance – Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment
EN 13718-1	Medical vehicles and their equipment – Air ambulances Part 1: Requirements for medical devices used in air ambulances
EN 1789	Medical vehicles and their equipment – Road ambulances
ISO 10993-1 <sup>vii</sup>	Biological evaluation of medical devices Part 1: Evaluation and testing within a risk management process
IEC62304	Medical device software – Software life cycle processes.
IEC62366-1	Medical devices – Part 1: Application of usability engineering to medical devices

- The Vscan Air app can be downloaded via App Store or Google Play, accordingly. It converts after confirmed by e-mail registration into a medical device. Before converting, it can be used for preview purposes as non-medical device.
- In accordance to IEC classification for power plugs, one AC adapter with either an A, C, G, or I connector will be part of standard configuration.
- Using the Vscan Air app with a mobile device which does not meet the minimum requirements may result in low-quality images, unexpected results and possible misdiagnosis. The Vscan Air app may not work in all devices. A recommended step in testing a particular device compatibility is the download, installation and first use of the Vscan Air app in preview mode.
- iv Not available in every country
- <sup>v</sup> When not charging using the wireless charger.
- vi Including national deviations.
- vii Includes compliance to relevant sub-parts of ISO 10993 as per the intended use of Vscan Air.

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GE Medical Systems, Inc., doing business as GE Healthcare.



## Vscan Air™

## Indications Reference Guide

This information is meant to be reference for examples of anatomies and examinations that can be evaluated by this product. The list may not be all inclusive.

## **Deep Scanning Transducer (Curved Array)**

Complete both shallow and deep exams with a simple flip of the 2-sided probe.

The curved array transducer on Vscan Air CL supports Black/ white (B-mode), Color (Color doppler) and Harmonic imaging modes. Vscan Air is indicated for ultrasound imaging, measurement, and analysis of the human body in clinical applications that include the following.

CLINICAL APPLICATION	ANATOMY	EVALUATION
Abdominal ultrasound (Adult/ Pediatrics)	<ul> <li>Gall bladder, biliary tree, common bile duct</li> <li>Liver</li> <li>Pancreas</li> <li>Spleen</li> <li>Bowel including Appendix, small bowel loops</li> <li>Abdominal aorta</li> <li>Kidneys</li> </ul>	<ul> <li>Gall stones</li> <li>Gall bladder inflammation (wall thickening, surrounding fluid)</li> <li>Biliary obstruction (duct dilatation)</li> <li>Hepatomegaly</li> <li>Fatty liver</li> <li>Splenomegaly</li> <li>Intestinal obstruction</li> <li>Appendicitis</li> <li>Peritoneal fluid</li> <li>Mass/cyst / Abscess</li> <li>Abdominal aortic aneurysm</li> <li>Kidney stones</li> </ul>
Urology (Adult/ Pediatrics)	<ul> <li>Kidneys</li> <li>Ureter</li> <li>Urinary Bladder</li> <li>Uretero-vesicular junction</li> <li>Prostate</li> </ul>	<ul> <li>Kidney, ureteral, bladder stones</li> <li>Kidney length</li> <li>Hydronephrosis</li> <li>Bladder dysfunction</li> <li>Pre-post Bladder volume</li> <li>Bladder inflammation (wall and mucosal changes, calcifications)</li> <li>Prostate size and volume</li> <li>Mass/cyst</li> <li>Ureteral jets with color</li> </ul>
OB-Gyn	<ul> <li>Uterus and endometrium</li> <li>Ovaries</li> <li>Cervix</li> <li>Pouch of Douglas (POD)</li> <li>Gestational Sac (GS)</li> <li>Placenta</li> <li>Amniotic fluid</li> <li>Fetus(es)</li> </ul>	GS location (Intra-uterine/ extra-uterine) Fetal viability/ heart motion Placenta position (including low-lying and previa) Fetal position and presentation Amniotic fluid assessment Cervical length measurement/ cervical insufficiency Fetal well-being assessment: Biophysical profile (breathing, movements, tone, amniotic fluid) Confirmation of fetal death Intrauterine device position Endometrial thickness measurement Uterine/ adnexal mass/ cyst (fibroids, cysts) Free fluid in Pouch of Douglas



## Deep Scanning Transducer (Curved Array) Cont.

CLINICAL APPLICATION	ANATOMY	EVALUATION
Lung/Thoracic (Adult/ Pediatrics)	<ul> <li>A-lines, B-lines, E-lines</li> <li>Pleura</li> <li>Lung tissue</li> <li>Lung sliding</li> <li>Lung point</li> </ul>	<ul> <li>Pneumothorax and hemothorax</li> <li>Pleural Effusion</li> <li>Lung consolidation <ul> <li>Pneumonia/ pneumonitis</li> <li>Pulmonary fibrosis</li> </ul> </li> <li>Pulmonary interstitial <ul> <li>and inflammatory disorders (Ex. ILD, COPD)</li> </ul> </li> <li>Acute respiratory distress syndrome</li> </ul>
Cardiac and hemodynamic assessment (Adult/ Pediatrics*)	Heart (atria, ventricles, valves) including pericardium     Subcostal view     Inter-atrial and interventricular septum     Pulmonary arteries/ veins     IVC	<ul> <li>Pericardial fluid</li> <li>LV and RV size and function</li> <li>Valvular regurgitations/ stenosis</li> <li>Volume status and responsiveness</li> <li>IVC size</li> <li>Respiratory variation</li> </ul>
Musculoskeletal (Conventional) (Adult/ Pediatrics)	<ul> <li>Hip/knee/ Shoulder joints</li> <li>Femur</li> <li>Humerus/elbow</li> <li>Tibia/fibula</li> <li>Radius/ulna</li> <li>Muscles</li> <li>Ligaments</li> <li>Tendons</li> <li>Nerves</li> </ul>	<ul> <li>Fluid</li> <li>Cyst/mass</li> <li>Long bone fractures</li> <li>Ligament and joint integrity</li> <li>Tendon injuries (tendonitis, rupture/tear)</li> <li>Muscle tears</li> <li>Peripheral nerve blocks</li> </ul>
Procedure guidance (Adult/ Pediatrics)	<ul> <li>Heart</li> <li>Lung</li> <li>Uterus</li> <li>Abdomen</li> <li>Thorax</li> <li>Bladder</li> <li>Nerve plexus</li> <li>Hip/knee /Shoulder joints</li> </ul>	<ul> <li>Fluid detection: Pericardial, Pleural, Peritoneal, Amniotic, Joints</li> <li>Procedures: Thoracentesis, Paracentesis, Pericardiocentesis, Amniocentesis, Arthrocentesis</li> <li>Foreign body visualization/localizations</li> <li>Bladder catheterization</li> <li>Nerve blocks</li> <li>Biopsy</li> <li>Placement and monitor position of tubes and catheters</li> </ul>
Protocols	<ul><li> Heart</li><li> IVC</li><li> Lungs</li><li> Abdomen</li></ul>	• FAST • eFAST • BLUE • FASH • FASE



## **Shallow Scanning Transducer (Linear Array)**

Complete both shallow and deep exams with a simple flip of the 2-sided probe.

The linear array transducer on Vscan Air CL supports Black/ white (B-mode), Color (Color doppler) and Harmonic imaging modes. Vscan Air is indicated for ultrasound imaging, measurement, and analysis of the human body in clinical applications that include the following.

CLINICAL APPLICATION	ANATOMY	EVALUATION
Peripheral Vascular (Adult/ Pediatrics)	<ul> <li>Arteries including Carotid, vertebral, subclavian, axillary, brachial, iliac, saphenous, popliteal, femoral</li> <li>Veins including Jugular, subclavian, cephalic, basilic, saphenous, femoral, popliteal, tibial</li> </ul>	<ul> <li>Deep vein thrombosis</li> <li>Atherosclerosis- Intima media thickness, plaques, vessel occlusion/ stenosis</li> <li>Subclavian Steel syndromes</li> </ul>
Lung/ Thoracic (Adult/ Pediatrics)	<ul><li>A, B, E lines</li><li>Pleura</li><li>Lung tissue</li><li>Lung sliding</li><li>Lung point</li></ul>	Pneumothorax and hemothorax Pleural Effusion Lung consolidation Pneumonia/ pneumonitis Pulmonary fibrosis Pulmonary interstitial and inflammatory disorders (Ex. ILD, COPD) Acute respiratory distress syndrome
Small organs (Adult/ Pediatrics)	<ul> <li>Testes</li> <li>Scrotum</li> <li>Thyroid</li> <li>Breast</li> <li>Bowel</li> <li>Abdominal wall</li> <li>Skin</li> <li>Subcutaneous tissue</li> <li>Fascia</li> <li>Lymph nodes</li> </ul>	Testicular torsion (size, echo-texture and vascularity) Epididymo-orchitis Fluid collection in scrotal sac Hematomas, hernias Breast nodules, mass, cyst Abdominal wall masses, hernias Thyroid nodules/cyst/mass/ diffuse enlargement Bowel pathology (ex. appendicitis, diverticulitis, intestinal obstruction) Pyloric stenosis/ Intussusception for pediatric patients) Soft tissue infection (cellulitis, abscess, bed sore) Foreign body visualization/ localization) Cutaneous mass
Musculoskeletal – (Superficial and conventional) (Adult/ Pediatrics)	<ul> <li>Tendons</li> <li>Muscles</li> <li>Ligaments</li> <li>Nerves</li> <li>Long bones (ex. Humerus, Radious, Ulna, Femur, Tibia, Fibula)</li> <li>Joints (ex. Ankel, Shoulder, Knee, Elbow, Wrist)</li> <li>Joint space/ bursae</li> </ul>	<ul> <li>Tendon injuries (tendonitis, rupture/ tear)</li> <li>Muscle tears</li> <li>Long bone fractures</li> <li>Carpal Tunnel syndrome</li> <li>Fluid collection in joint space, muscles, bursae</li> <li>Joint and ligaments integrity</li> <li>Cyst/ mass</li> <li>Hip joint evaluation for neonates and infants</li> </ul>
Nerves (Adult/ Pediatrics)	<ul> <li>Peripheral nerves including examples as Interscalene, supraclavicular, infraclavicular, axillary plexus, Median N, Radial N, Ulnar, Femoral, Popliteal, Tibial, Peroneal, Saphenous N</li> </ul>	Peripheral nerve blocks



## Shallow Scanning Transducer (Linear Array) Cont.

CLINICAL APPLICATION	ANATOMY	EVALUATION
Neck and airway (Adult/ Pediatrics)	<ul> <li>Cervical Lymph nodes</li> <li>Trachea</li> <li>Epiglottis, cricoid cartilage, cricothyroid membrane</li> <li>Esophagus</li> <li>Vocal folds</li> </ul>	<ul><li>Neck massess</li><li>Airway assessment</li><li>Vocal cord dysfunction</li></ul>
Procedural guidance (Adult/ Pediatrics)	<ul> <li>Thorax</li> <li>Veins (including Jugular/ Subclavian/ Axillary/ Femoral / Brachial/ Basilic/ Cephalic)</li> <li>Arteries (including femoral, radial, brachial, axillary, dorsalis pedis)</li> <li>Peripheral nerves</li> <li>Joints</li> <li>Vertebral spaces</li> <li>Skin and subcutaneous tissue</li> <li>Trachea and surrounding structures</li> </ul>	Fluid detection and removal support: thoracentesis  Peripheral venous access Central venous catheterization Arterial access Assessment and support of dialysis access Nerve blocks Joint aspiration and injections Cyst aspiration Biopsy Abscess drainage Foreign body visualization/localization Lumbar Puncture Endotracheal tubes placement and confirmation Support placement and monitor position of tubes and catheters
Ophthalmic**	<ul><li>Optic nerve sheath</li><li>Retina</li><li>Globe</li><li>Lens</li></ul>	<ul> <li>Retinal detachment</li> <li>Vitreous hemorrhage</li> <li>Intra-ocular foreign body visualization</li> <li>Globe rupture</li> <li>Optic Nerve sheath diameter</li> <li>Lens dislocation</li> </ul>
Cephalic (Neonatal)	Fontanelle     Superficial and mid-superficial cranial structures	<ul><li> Gyral-sulcal anatomy</li><li> Superior sagittal sinus thrombosis</li><li> Cerebral edema</li><li> Extra-axial fluid collections</li></ul>
Protocols	• Lungs	• eFAST • BLUE

\*Pediatric population for Cardiac application defined as minimum body weight 40 Kg and above.

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<sup>\*\*</sup>Ophthalmic not available in Japan and China