

LOGIQ Fortis R3.x HDU

Product Specification Sheet

Last updated on: Thursday, January 13, 2022

1	General Specifications	
1	Dimensions and Weight	
2	(Dimensions given with floating keyboard stowed and display tilted for trans	(4.00
3		885 mm, 34.8"
-	Depth Height	
4 5	Weight	1250 - 1800 mm, 49 - 71" 85 kg (187.4 lb)
5	weight	530 mm, 20.9" (Caster),
6	Width	565 mm, 22.2" (Monitor)
7	Electrical Power	505 mm, 22.2 (Pointor)
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	Viewing angle 89/89/89°	
45	Contrast Ratio: >20,000:1	
46	System Overview	
47	Applications	
48	Abdominal	
49	Obstetrical Currectorial	
50 51	Gynecological Breast	
51	סועמטו	

50	Could be the
	Small Parts
	Peripheral Vascular
	Transcranial (adult and neonatal)
	Pediatric and neonatal Musculoskeletal (general and superficial)
	Urological Cardiac (adult and pediatric)
	Interventional
	Pleural
60	
	Operating Modes B-Mode
	M-Mode
	Color Flow Mode (CFM)
	B-Flow (Option)
	Extended Field of View (LOGIQView)
	Power Doppler Imaging (PDI)
	PW Doppler
	CW Doppler (Option)
	Volume Modes (3D/4D)
70	(Option)
	Anatomical M-Mode
	Coded Contrast Imaging (Option)
	Strain elastography (Option)
	B Steer+ (Option)
	Shear wave elastography (Option)
	UGAP (Option) - Ultrasound Guided Attenuation Parameter Imaging
	Scanning Methods
	Electronic sector
-	Electronic convex
	Electronic linear
	Mechanical volume sweep
	Probe Types
	Sector phased array
	Convex array
85	Microconvex 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™ compounding
	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
	Raw data analysis
	Real-time automatic Doppler calculations
	OB calculations
	Fetal trending
	Multi gestational calculations
	Hip dysplasia calculations
	Gynecological calculations
108	Vascular calculations
	Urological calculations
	Renal calculations
	Cardiac calculations
112	InSite™ capability
113	On-board electronic documentation Auto Doppler Assist

445		
	Privacy and security, including user and rights management	
116	LOGIQView	
117	External USB printer connection	
118	Network printer support	
119	HDMI output (available for compatible devices)	
120	System Options	
121	Tricefy®	
122	DICOM	
123	B-Flow	
124	Compare Assistant	
125	Auto IMT	
126	Scan Assistant	
127	Breast productivity package	
128	Thyroid productivity package	
129	OB measure assistant	
130	Quantificative Flow Analysis available with Color Flow/PDI	
131	Breast Measure Assistant	
132	B Steer+	
133	Strain elastography	
134	Elastography Quantification	
135	Advanced privacy and security (vulnerability scan)	
136	Power assistant and scan on battery	
137	Storage bins	
138	Shear wave Elastography	
139	Volume Navigation	
140	UGAP	
141	Hepatic Assistant	
142	Coded Contrast Imaging	
143	Stress echo	
144	Cardiac Strain (Automatic Function Imaging)	
145	On-board reporting	
146	TVI	
147	Wireless LAN	
148	CW	
149	DVR	
150	Table tools	
151	Advanced probes	
152	Breast Assistant, Powered by Koios DS™	
153	SonoNT SonoIT	
154	Advanced SRI Type 2	
155	Peripheral Options	
-	Integrated Option for Digital Color thermal Printer	
157	Digital A6 color thermal printer	
158	Foot switch, with programmable functionality	
159	CRF-200U card reader support (Japan Only)	
160	Console protective cover	
161	LOGIQ smart device apps	Photo Assistant
		Remote Control
162	Display Modes	
163	Live and stored display format	• Full size and split screen – both w/ thumbnails. For still and CINE
164	Review image format	• 4x4, and thumbnails. For still and CINE
<u> </u>		Independent Dual B or CrossXBeam/PW Display
		• CW
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	
2		

174	Real-time Triplex Mode -	
	B or CrossXBeam + CFM or PDI/PW	
175	Selectable alternating modes	
176	B or CrossXBeam/PW	
177	B or CrossXBeam + CFM (PDI)/PW	
178	B/CW (Option)	
179	Multi-image (split/quad screen)	
180	Live and/or frozen	
181	B or CrossXBeam + B or CrossXBeam/CFM or PDI or B-Flow (Option)	
182	PW/M	
183	Independent Cine playback	
184	Display Annotation	
185	Patient name: first, last and middle	
186	Patient ID	
187	Alternate patient ID	
188	Age, sex and date of birth	
189	Hospital name	
		• MM/DD/YY
190	Date format: three types selectable	• DD/MM/YY
		• YY/MM/DD
	Time format:	• 24 hours
191		• 24 nours • 12 hours
L	2 types selectable	
		• LMP
192	Gestational age from	• GA
172		• EDD
		• BBT
193	Probe name	
194	Map names	
195	Probe orientation	
196	Depth scale marker	
197	Lateral scale marker	
198	Focal zone markers	
100	Image depth	
199	Image depth	
199 200	Zoom depth	
-		• Gain
-		
200	Zoom depth	Dynamic range
-		Dynamic range Imaging frequency
200	Zoom depth	 Dynamic range Imaging frequency Frame averaging
200	Zoom depth	 Dynamic range Imaging frequency Frame averaging Gray map
200	Zoom depth	 Dynamic range Imaging frequency Frame averaging Gray map SRI
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain
200	Zoom depth	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width
200 201 202	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
200	Zoom depth B-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
200 201 202	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
200 201 202	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
200 201 202	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 PRF
200 201 202	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 PRF Doppler frequency
200 201 202	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 PRF Doppler frequency Line density
200 201 202	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 PRF Doppler frequency Line density Frame averaging
200 201 202	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 PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity
200 201 202	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 PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging
200 201 202 203	Zoom depth B-Mode M-Mode Doppler 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 PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity
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200 201 202 203	Zoom depth B-Mode M-Mode Doppler 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 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
200 201 202 203	Zoom depth B-Mode M-Mode Doppler 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 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
200 201 202 203	Zoom depth B-Mode M-Mode Doppler 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 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
200 201 202 203 204	Zoom depth B-Mode M-Mode Doppler Mode Color Flow Doppler 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 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
200 201 202 203	Zoom depth B-Mode M-Mode Doppler 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 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

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	 TIS: Thermal Index Soft Tissue TIC: Thermal Index Cranial (Bone) TIB: Thermal Index Bone MI: Mechanical Index
213	% of maximum power output	
214	Biopsy guide line and zone	
215	Heart rate	

216	General System Parameters	
217	System Setup	
218	Pre-programmable categories	
219	User programmable preset capability	
220	Factory default preset data	
224	Languages: English, French, German, Spanish, Italian, Brazilian,	
221	Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian	
222	OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and A	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 syst	tem. 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	
235	Quad Image CINE display	
	CINE gauge and CINE image number display	
237	CINE review loop	
238	CINE review speed	
239		
240	Image Storage	
241	On-board database of patient information from past exams	
		Compressed/uncompressed
242	Storage formats: DICOM	• Single/multi-frame
		• Enhanced (3D/4D)
0.47		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, MPEG	Vue
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 network/mobile storage queue
		• Query/retrieve
252	Public SR template	
253	Structured Reporting – compatible with vascular and OB, cardiac and bre	east standard
254	InSite capability	
255	Advanced privacy and security (Option)	
-		

256	Physiological input panel (Option)	
230		• 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
		 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 sta	andard PC
	Exam results include patient info, exam info, measurements, calculations, images,	
263	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	
267	Displayed imaging depth: 0 – 100 cm	
_	Minimum depth of field: 0 – 2 cm (zoom) (probe dependent)	
269	Maximum depth of field: $0 - 100 \text{ cm}$ (probe dependent)	
270	Continuous dynamic receive focus	
271		
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 grav	
	256 shades of gray	
280	256 color tones	
280	256 color tones	Acoustic power
280	256 color tones	• Acoustic power • Gain
280	256 color tones	
280	256 color tones	• Gain
280	256 color tones	• Gain • Dynamic range
280	256 color tones	 Gain Dynamic range Frame averaging Gray scale map
280	256 color tones	 Gain Dynamic range Frame averaging Gray scale map Frequency
280	256 color tones Digital B-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent)
280	256 color tones	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate
280	256 color tones Digital B-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle)
280	256 color tones Digital B-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications
280	256 color tones Digital B-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam
280	256 color tones Digital B-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization
280	256 color tones Digital B-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject
280	256 color tones Digital B-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression
280 281 282	256 color tones Digital B-Mode Adjustable	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject
280	256 color tones Digital B-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI
280 281 282	256 color tones Digital B-Mode Adjustable	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power
280 281 282	256 color tones Digital B-Mode Adjustable	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain
280 281 282	256 color tones Digital B-Mode Adjustable	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain Dynamic range
280 281 282	256 color tones Digital B-Mode Adjustable	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain
280 281 282	256 color tones Digital B-Mode Adjustable	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain Dynamic range
280 281 282 282 283	256 color tones Digital B-Mode Adjustable Digital M-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain Dynamic range Gray scale map Frequency
280 281 282 282 283	256 color tones Digital B-Mode Adjustable Digital M-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain Dynamic range Gray scale map Frequency Sweep speed
280 281 282 282 283	256 color tones Digital B-Mode Adjustable Digital M-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain Dynamic range Gray scale map Frequency Sweep speed M colorization
280 281 282 282 283	256 color tones Digital B-Mode Adjustable Digital M-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain Dynamic range Gray scale map Frequency Sweep speed M colorization M display format
280 281 282 282 283 283	256 color tones Digital B-Mode Adjustable Digital M-Mode	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain Dynamic range Gray scale map Frequency Sweep speed M colorization
280 281 282 282 283	256 color tones Digital B-Mode Adjustable Digital M-Mode Adjustable	 Gain Dynamic range Frame averaging Gray scale map Frequency Speed of sound (application dependent) Framerate Scanning size (FOV or Angle) Depending on the probe, see probe specifications CrossXBeam B colorization Reject Suppression SRI Acoustic power Gain Dynamic range Gray scale map Frequency Sweep speed M colorization M display format

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	
290	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
		Trace direction
		Trace sensitivity
292	Digital Color Flow Mode	
	Adjustable	 Acoustic power Color maps, including velocity-variance maps Gain Velocity scale range Wall filter Packet size Line density Spatial filter Steering angle Baseline shift Frame average Threshold Auto ROI placement and steering on linear Accumulation mode Flash suppression Shortcuts
294	Digital Power Doppler Imaging	
295	Adjustable	 Acoustic power Color maps, velocity-variance maps Gain including Velocity scale range Wall filter Packet size Line density Spatial filter Steering angle Frame average Threshold Accumulation mode Flash suppression Shortcuts
296	Continuous Wave Doppler (Option)	
297	Available on M5Sc-D, 6S-D, 6Tc-RS, P2D and P6D probes Steerable CW mode included	
298		

		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 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	····· 8 ····· • • • • • • • • • • • • •
307	Available on all 2D and 4D probes	
308	B-Flow (Option)	
308		
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 <i>flow</i> ™	
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)	
	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. I 2-9-D. I 2-9VN-D. I 3-12-D. M556-D. MI 6-15-D
331	RAB6-D, RIC5-9-D, L6-24-D	, , , , , , , , , , , , , , , , , , ,
770	2 contrast timers	
332		
333	Timed updates: 0.05 – 10 seconds	
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 balance of the second	
	The LOGIQ Fortis is designed for compatibility with most commercially available ultrasound contrast agents.		
740	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		
340	agent is cleared for use.		
	Contrast related product features are enabled only on systems for delivery to an authorized country or region of use.		
341	LogIQView		
341	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 Advanced 3D		
356 357	Advanced 3D Acquisition of color data		
357 358	Automatic rendering		
359	3D landscape technology		
360	3D movie		
361	Real-time 4D (Option)		
		Real Time 4D	
362	Acquisition modes	Spatio-Temporal Image Correlation (Option)	
		• 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)	
000		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- 	
		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	
		• Single: 3D or A- or B- or C-Plane	
370	Automated Volume Calculation – VOCAL II		
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		
374	Sensor-based acquisition		
375	Position markers		
376	Needle tip tracking		
377	Virtual tracking		
378	Auto image registration		
379	Tru3D feature includes		
380	Render modes: gray surface, texture, min-, max-, average-intensity		

381	Measurements: distance, angle, area, volume
382	3D Movie
	Scan assistant (Option)
384	Factory programs
385	User-defined programs
386	Steps include image annotations, mode transitions, basic imaging controls and measurement initiation
387	Compare Assistant (Option)
388	Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning
	Breast productivity package
390	Auto measurement
391	Worksheet summary includes measurements and locations for lesions and lymph nodes
392	Feature assessment
393	BI-RADS™ assessment
394	User editable
395	Thyroid productivity package (Option)
396	Auto measurement
397	Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes
398	Feature assessment
399	BI-RADS™ assessment
400	User editable
401	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, 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)
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)
414 415	Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D Measures liver attenuation* (attenuation coefficient [dB/cm/MHz]) by auto measure algorithm with reference B-mode
415	Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)
410	Quantitative flow analysis (Option)
417	Available in color and power Doppler
	TVI (Option)
420	Available on the following probes: M5Sc-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 echo (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 Over 100 sec. available
433 434	Over 100 sec. available Wall motion scoring (bulls-eye and segmental)
434	
435	Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level
470	
436	Auto EF (Option) Allows somi automatic massurement of the global EE (Eiestian Eraction)
437	Allows semi-automatic measurement of the global EF (Ejection Fraction) User editable
438 439	Cardiac AFI (Option)
	Allows assessment of the complete left ventricle with all segments at a glance by combining three longitudinal views
440	into one comprehensive bulls-eye view
441	2D strain based data moves into clinical practice
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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	
450	Advanced SRI:	 Compatible with all linear, convex and sector probes 	
430	two types selectable	• Type 2 (Option)	
		 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	- Virtual convex	
	Controls available while "live"		
456 457	Magnification Zoom: Magnifies the entire image on the screen without zoom ROI, 20>	/ maximum zoom factor	
	Pan Zoom: Magnifies the display of the data within the ROI		
458	HD Zoom: Magnifies the image within the zoom ROI, with higher spatial resolution th		
459	HD Zoom: Magnines the image within the zoom ROI, with higher spatial resolution th		
		• 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	
	Color Flow-Mode	Packet size	
462			
		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 s	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)	
L		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	 Overall gain (loops and stills) Color map Transparency map Frame averaging (loops only) Flash suppression CFM display threshold Spectral invert for color/Doppler
477	Anatomical M-Mode on cine loop	
478	4D	 Gray map, colorize Post gain Change display – single, dual, quad sectional or rendered
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	
487 488	Dual B-mode capability General M-Mode	
489 489	M-Depth	
490	Distance	
491	Time	
492	Slope	
493	Heart rate	
494	General Doppler measurements/calculations	
495	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) AT (Acceleration Time)	
502 503	ACCEL (Acceleration)	
503	TAMAX (Time Averaged Maximum Velocity)	
505	Volume flow (TAMEAN and vessel area)	
506	Heart rate	
507	PI (Pulsatility Index)	
508	RI (Resistivity Index)	
509	Real-time Doppler Auto Measurements/Calculations	
510	PS (Peak Systole)	
511	ED (End Diastole)	
512	MD (Minimum Diastole)	
513	PI (Pulsatility Index)	
514	RI (Resistivity Index)	
515	AT (Acceleration Time)	

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541•AC, BPD, FL •AC, BPD, FL, HC •AC, BPD, FL, HC •AC, FL •AC, FL •AC, FL •AC, FL, HC •AC, HC •BPD, APTD, TTD, FL •BPD, APTD, TTD, SL542Fetal graphical trending 543544Multi-gestational calculations (4)545Fetal qualitative description (anatomical survey)546Fetal environmental description (biophysical profile)547Programmable OB tables548Over 20 selectable OB calculations549Expanded worksheets	540	Gestational age by	 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) FIB (Fibula length) Radius (Radius length) 	
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	550	Summary Reports		

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551	OB Calculations and ratios
552	FL/BPD
553	FL/AC
	FL/HC
555	HC/AC
556	CI (Cephalic Index)
557	AFI (Amniotic Fluid Index)
558	CTAR (Cardio-Thoracic Area Ratio)
559	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
562	User editable
563	SonoNT and SonoIT
564	SonoNT measures the contour detection of the NT border
565	SonolT 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)
585	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)
589	SYS MICA (Systolic Mid Internal Carotid Artery)
590	DIAS MICA (Diastolic Mid Internal Carotid Artery)
591	SYS PICA (Systolic Proximal Internal Carotid Artery)
591	DIAS PICA (Diastolic Proximal Internal Carotid Artery)
592	SYS DECA (Systolic Distal External Carotid Artery)
594	DIAS DECA (Diastolic Distal External Carotid Artery)
594 595	SYS PECA (Systolic Proximal External Carotid Artery)
595 596	DIAS PECA (Diastolic Proximal External Carotid Artery)
590 597	VERT (Systolic Vertebral Velocity)
597 598	SUBCLAV (Systolic Subclavian Velocity)
598 599	Auto IMT (Option)
599 600	Summary reports
-	Urological measurements/calculations
602	Bladder volume
602 603	Prostate volume
603 604	Left/right renal volume
	Generic volume
605 606	Post-void bladder volume
606	Post-vold bladder volume Pelvic floor measurements
607	
608	Summary reports
609	TCD measurements/calculations
610	MCA, ACA, PCA, ICA
611	AComA, PCom A
612	Vert

613 Basilar 614 MCA/CA Ratio 615 Summary reports 616 Pediatric and Nonatal measurements/calculations 617 Hip orientation 618 Hip orientation 619 Summary reports 620 Probec (All Optional) 621 Applications 622 Applications 633 Bandwidth 624 Number of elements 625 Field of wew (max) 626 Field of wew (max) 627 Probage frequency 628 Applications 629 PW Dopgier frequency 621 Stand over (max) 622 Prob Doppier frequency 623 Standwidth 624 Applications 625 Pisd of Requency 626 Problept frequency 627 PN Doppier frequency 638 Bandwidth 630 Color Doppier frequency 631 Bandwidth 632 Applications 633 Bandwidth		
615 Summary reports 617 Hip orderitation 618 Hip orderitation 619 Hip orderitation 620 Probes (All Optional) 620 Probes (All Optional) 621 Applications Pediatric cardiac, pediatric abdomen 622 Applications Pediatric cardiac, pediatric abdomen 623 Bandwidth 20 – 80 MHz 624 Applications 96 625 Field of view (max) 115° 626 Obryscia foct print 15.9 mm 627 8-Mode frequency 47, 49, 53, 57, 61, 65 MHz 628 Harmonic frequency 27, 31, 42, 50, 55, 65 MHz 629 Physical foct print 15.9 mm 620 Color Obopier frequency 27, 31, 42, 50, 55, 65 MHz 623 Bandwidth 20 – 80 MHz 631 Bandwidth 20 – 80 MHz 632 Applications Adult cardiac 633 Bandwidth 20 – 80 MHz 634 Number of olements 64 635 Field of view (max) 90° <td< td=""><td></td></td<>		
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618 Hig orientation 619 Summary reports 621 57-0, Sector probe 622 Applications Pediatric cardiac, pediatric abdomen 623 Bandwidth 2.0 – 8.0 MHz 624 Number of elements 96 625 Field of view (max.) 115* 626 Physical foot print 15.8 y mm 627 B-Mode frequency 4.0, 4.2, 5.0, 55, 65 MHz 628 Harmonic frequency 2.8, 3.3, 5.6, 4.2 MHz 629 PW Doppler frequency 2.8, 3.1, 5.6, 4.2 MHz 630 Color Oppler frequency 2.7, 3.1, 4.2, 5.0 MHz 631 Strendwidth 2.0 = 8.0 MHz 632 Field of view (max.) 90* 633 Bandwidth 2.0 = 8.0 MHz 634 Number of elements 64 635 Field of view (max.) 90* 637 Physical foot print 57 x 13 x 10 mm 638 Harmonic frequency 6.0 MHz 639 PW Doppler frequency 5.3, 4.4, 7.5 MHz		
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628 Harmonic frequency 47,49,53,57,61,63,81Hz 629 PW Doppler frequency 28,31,3,6,42 MHz 631 610r Doppler frequency 2.7,31,42,50 MHz 631 610r Doppler frequency 2.7,31,42,50 MHz 633 Bandwidth 20 - 8.0 MHz 633 Bandwidth 20 - 8.0 MHz 634 Number of elements 64 635 Field of view (max.) 90° 636 Physical foot print 37 x13 n 0mn 637 B-Mode frequency 6.0,6.5 MHz 638 Harmonic frequency 6.0,6.5 MHz 638 Harmonic frequency 6.0,6.5 MHz 638 Harmonic frequency 5.0,6.0,6.5 MHz 639 PW Doppler frequency 3.1,3.6,4.2,5.0,6.3 MHz 641 BEOCS-D 6.0 MHz 642 Applications Urology 643 Biopsy guide Single angle, disposable (E8387M); 644 Bandwidth 5.0 - 12.0 MHz 645 Number of elements 64 646 Field o		
629 PW Doppler frequency 28.3.1.8.4.2 MHz 630 Color Doppler frequency 2.7.3.1.4.2.5 0 MHz 631 STC-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 57 x 13 x 10 mm 637 B-Mode frequency 50, 60, 6.5 MHz 638 Harmonic frequency 51, 3.6, 4.2, 50, 6.3 MHz 639 PW Doppler frequency 51, 3.6, 4.2, 50, 6.3 MHz 640 Color Doppler frequency 51, 3.6, 4.2, 50, 6.3 MHz 641 BEOSC-D Edit Strate 642 Applications Urology 643 Biopsy guide Single angle, disposable (E8387M); 644 Bandwidth 3.0 - 12.0 MHz 645 Field of view (max.) 133° 646 Field of view (max.) 133° 647 Physical foot print 19 x 19 mm 648		
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636 Physical foot print 37 x 13 x 10 mm 637 B-Mode frequency 50, 60, 65, MHz 638 Harmonic frequency 60, MHz 639 PW Doppler frequency 31, 3, 6, 4, 2, 5, 0, 6, 3 MHz 640 Color Doppler frequency 33, 4, 1, 4, 7, 5, 5 MHz 641 BEOS-D		
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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 Abdomen, OB/GYN, pediatric, peripheral vascular, musculoskeletal 653 Applications Abdomen, OB/GYN, pediatric, peripheral vascular, musculoskeletal 654 Biopsy guide Multi-angle, disposable with a reusable bracket (H 655 Bandwidth 1.0 - 6.0 MHz 656 Number of elements 192 657 Field of view (max.) 80° 658 Physical foot print 67 × 11 mm 659 B-Mode frequency 1.5, 2.5, 3.0, 4.5, 60, 6.5 MHz 661 PW Doppler frequency 1.7, 2.1, 2.5, 3.6 MHz 662 Color Doppler frequency 1.7, 2.1, 2.5, 3.6 MHz 663 C1-6VN-D, VNav inside XDclear convex probe 4bdomen, OB/GYN, pediatric, peripheral vascular, Abdomen, OB/GYN, pediatric, peripheral vascul		
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652 C1-6-D, XDclear™ convex probe 653 Applications 654 Biopsy guide 655 Bandwidth 656 Number of elements 657 Field of view (max.) 658 Physical foot print 659 B-Mode frequency 650 Harmonic frequency 651 PW Doppler frequency 652 Color Doppler frequency 653 Cl-6VN-D, VNav inside XDclear convex probe 654 May sensor inside probe for Volume Navigation tracking without sensor cables 655 Applications		
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663 C1-6VN-D, VNav inside XDclear convex probe 664 VNav sensor inside probe for Volume Navigation tracking without sensor cables 665 Applications 665 Abdomen, OB/GYN, pediatric, peripheral vascular,		
664 VNav sensor inside probe for Volume Navigation tracking without sensor cables 665 Applications 665 Applications		
Abdomen, OB/GYN, pediatric, peripheral vascular,		
	r, general	
666 Biopsy guide Multi-angle, disposable with a reusable bracket (F	H/917\/B)	
667 Bandwidth 1.0 - 6.0 MHz	(טעודעדי	
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		

675	C2-7-D, micro convex biopsy probe	
676	Applications	Abdomen, pediatric
677	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40482LK),
678	Bandwidth	Multi-Angle, reusable stainless bracket (H40482LL) 1.0 – 6.0 MHz
679	Number of elements	144
680	Field of view (max.)	144 110°
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	
687	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
688	Applications	Abdomen, pediatric
689	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40482LK), 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
708	C2-9-VN-D, VNav inside XDclear convex probe	5.1, 4.2, 4.0, 5.4 11112
709	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
/10	what sensor histide probe for volume havigation tracking without sensor cables	Abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal
711	Applications	transcranial, general musculoskeletal
710	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BA)
712		
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	
722	Applications	Abdomen, neonatal, pediatric, peripheral vascular, neonatal transcranial, small part
723	Bandwidth	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
728 729		3.1, 4.2, 6.3, 7.1 MHz
	PW Doppler frequency	
730	Color Doppler frequency	3.9, 5.3, 6.6 MHz
731	IC5-9-D, micro convex probe	
732	Applications	OB/GYN, urology
		Single angle, disposable with a disposable bracket (E8385MJ)
733	Biopsy guide	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, 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	
755	Applications	Peripheral vascular, pediatric, abdomen, OB/GYN, general 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	
766	Applications	Abdomen, OB, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular
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	
777	Applications	General musculoskeletal, superficial 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
788	Bandwidth	4.0 – 15.0 MHz
789	Number of elements	168

790	Field of view (max.)	25 mm
790 791	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	
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	
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
818 819	P2D, CW split crystal probe Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
820	Frequency	2.1 MHz
821	P6D, CW split crystal probe	2.1 1112
822	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
823	Frequency	6.3 MHz
824	RAB6-D, convex volume probe	
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
829	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	2.8, 3.5, 3.8 MHz
835	RIC5-9-D, convex volume probe	
836	Applications	OB/GYN, urology
837	Biopsy guide	Single angle, reusable (H46721R)
838	Bandwidth	3.0 – 10.0 MHz 192
839 840	Number of elements Field of view (max.)	192
840 841	Physical foot print	32 x 27 mm
841 842	Physical foot print 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	
	Safety Conformance	

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: 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/calcul	ations
858	B-Mode measurements	
		 Aortic Root Diameter (Ao Root Diam)
		 Aortic Arch Diameter (Ao Arch Diam)
859	Aorta	 Ascending Aortic diameter (Ao Asc)
033	Auta	 Descending Aortic Diameter (Ao Desc Diam)
		 Aorta Isthmus (Ao Isthmus)
		• Aorta (Ao st junct)
		 Aortic Valve Cusp Separation (AV Cusp)
860	Aortic valve	Aortic Valve Area Planimetry
000		(AVA Planimetry)
		• (Trans AVA)
		• Left Atrium Diameter (LA Diam)
		• LA Length (LA Major)
		• LA Width (LA Minor)
861	Left atrium	Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao ratio)
		Left Atrium Area (LAA(d), LAA(s))
		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)
		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)
060	La Gran and La	Left Ventricle Length (LV Major)
862	Left ventricle	 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 Endocardial Area, Width (LVA (d), LVA(s)) Left Ventricle Epicardial Area, Length (LVAepi (d), LVAepi (s))
		Left Ventricle Epicardia Alea, Lefgtr (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 continued	Left Ventricle Stroke Volume, Teichholz/Cubic (LVIDd, LVIDs)
		Left Ventricle Stroke Index, Single Plane, Two Chamber, Method of Disk
863		(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, Dullet Math ed of Dick (1)(dd 1)(dc)
		Bullet, Method of Disk (LVAd, LVAs)
		Interventricular Septum (IVS)
		 Left Ventricle Internal Diameter (LVI D) Left Ventricle Posterior Wall Thickness (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 valve	 Pulmonic Valve Annulus Diameter
305		(PV Annulus Diam)
		Pulmonic Diameter (Pulmonic Diam)
		 Right Atrium Diameter, Length (RAD Ma)
		 Right Atrium Diameter, Width (RAD Mi)
866	Right atrium	• Right Atrium Area (RAA)
000	Right atrium	 Right Atrium Volume, Single Plane, Method of Disk (RAAd)
		 Right Atrium Volume, Systolic, Single Plane, Method of Disk (RAAs)

		Right Ventricle Outflow Tract Area (RVOT Planimetry)
		Left Pulmonary Artery Area (LPA Area)
		 Right Pulmonary Artery Area (RPA Area)
		 Right Ventricle Internal Diameter (RVIDd, RVIDs)
		 Right Ventricle Diameter, Length (RVD Ma)
67	Right ventricle	 Right Ventricle Diameter, Width (RVD Mi)
		 Right Ventricle Wall Thickness (RVAWd, RVAWs)
		 Right Ventricle Outflow Tract Diameter (RVOT Diam)
		Left Pulmonary Artery (LPA)
		Main Pulmonary Artery (MPA)
		Right Pulmonary Artery (RPA)
		Systemic Vein Diameter (Systemic Diam)
		Patent Ductus Arterosis Diameter (PDA Diam)
		Pericard Effusion (PEs)
68	System inferior vena cava	Patent Foramen Ovale Diameter (PFO Diam)
		• Ventricular Septal Defect Diameter (VSD Diam)
		Interventricular Septum (IVS) Fractional Shortening (IVSd, IVSs)
		Tricuspid Valve Area (TV Panimetry)
369	Tricuspid valve	Tricuspid Valve Analys Tricuspid Valve Annulus Diameter (TV Annulus Diam)
70	M-Mode measurements	
10		• Aortic Root Diameter (Ao Root Diam)
		Aortic Valve
71	Aorta	Aortic Valve Diameter (AV Diam)
		Aortic Valve Cusp separation (AV Cusp)
		Aortic Valve Ejection Time (LVET)
		Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio)
372	Left atrium	Left Atrium Diameter (LA Diam)
		Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)
		Left Ventricle Internal Diameter (LVIDd, LVI Ds)
		Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs)
		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	Mitral Valve Leaflet Separation (D-E Excursion)
74		Mitral Valve Anterior Leaflet Excursion (D-E Excursion)
		Mitral valve D-E Slope (D-E Slope)
		• Mitral Valve E-F Slope (E-F Slope)
		Mitral Annular Plane Systolic Excursion (MAPSE)
75	Pulmonic valve	QRS Complex to End of Envelope (Q-PV close)
		 Right Ventricle Internal Diameter (RVIDd, RVIDs)
		 Right Ventricle Wall Thickness (RVAWd, RVAWs)
76	Right ventricle	 Right Ventricle Outflow Tract Diameter (RVOT Diam)
		 Right Ventricle Ejection Time (RVET)
		Right Ventricle Pre-Ejection Period (RVPEP)
77	System	Pericard Effusion (PE (d))
	Tricuspid valve	QRS Complex to End of Envelope (Q-TV close)
378		

	Doppler Mode measurements	
		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	 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)
881	Aortic valve continued	Aortic Valve Acceleration Time (AV Acc Time)
		Aortic Valve Acceleration Time (AV Acc 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 Mean Pressure Gradient (LVOT Trace)
882	Left ventricle	Left Ventricle Outflow Tract Mean Plessife 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)
ļ		• Left Ventricle Ejection Time (LVET)
		Left Ventricle Ejection Time (LVET) E' Early diastolic mitral valve annular velocity (E')
		• E' Early diastolic mitral valve annular velocity (E')
		 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' 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' 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)
882	Mitral valve	 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
883	Mitral valve	 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)
883	Mitral valve	 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	 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 Mitral inflow E velocity to E' ratio (E/E')
883	Mitral valve	 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 Mitral inflow E velocity to E' ratio (E/E') Mitral inflow E velocity to E' Avg ratio (E/E' Avg)
883	Mitral valve	 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 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)
883	Mitral valve	 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 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')
883	Mitral valve	 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 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' Lat)
883	Mitral valve	 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' Lat) E' Medial) E' Sept Early diastolic mitral 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)
883	Mitral valve	 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' Lat) E' Medial) E' Sept Early diastolic mitral 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' Sept ratio (E/E' Lat) Metal Mitral inflow E velocity to E' Sept ratio (E/E' Lat) Metal 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)
883	Mitral valve	 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' Lat) E' Medial) E' Sept Early diastolic mitral 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' Sept ratio (E/E' Lat) Medial Mitral inflow E velocity to E' Sept ratio (E/E' Lat) Metal Inflow E velocity to E' Sept ratio (E/E' Sept) Mitral Inflow E velocity to E' Sept ratio (MR Trace) Mitral Regurgitant Mean Pressure Gradient (MR Trace)
883	Mitral valve	 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 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 inflow E velocity to E' Sept ratio (E/E' Sept) Mitral Valve Regurgitant Flow Acceleration (MR Trace) Mitral Regurgitant Mean Pressure Gradient (MR Trace) Mitral Regurgitant Velocity Time Integral (MR Trace)
883	Mitral valve	 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 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 inflow E velocity to E' Sept ratio (E/E' Sept) Mitral Valve Regurgitant Flow Acceleration (MR Trace) Mitral Regurgitant Mean Pressure Gradient (MR Trace) Mitral Regurgitant Velocity Time Integral (MR Trace) Mitral Valve Mean Velocity (MV Trace)
	Mitral valve Mitral valve continued	 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 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 inflow E velocity to E' Sept ratio (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)
883		 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 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 inflow E velocity to E' Sept ratio (E/E' Sept) Mitral Valve Regurgitant Flow Acceleration (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)
		 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 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' Avg 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 inflow E velocity to E' Sept ratio (E/E' Sept) Mitral Valve Regurgitant Flow Acceleration (MR Trace) Mitral Regurgitant Mean Pressure Gradient (MR Trace) Mitral Regurgitant Velocity Time Integral (MR Trace) Mitral Valve Mean Velocity (MV Trace) Mitral Valve Mean Pressure Gradient (MV Trace) Mitral Valve Mean Pressure Gradient (MR Trace) Mitral Valve Mean Pressure Gradient (MV Trace) Mitral Valve Mean Pressure Gradient (MR Trace) Mitral Valve Mean Pressure Gradient (MV Trace) Mitral Valve Mean Pressure Gradient (MR Trace) Mitral Valve Mean Pressure Gradient (MV Trace) Mitral Regurgitant Peak Pressure Gradient (MR Trace)
		 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 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' Sept ratio (E/E' Lat) Medial Mitral inflow E velocity to E' Sept ratio (E/E' Sept) Mitral inflow E velocity to E' Sept ratio (E/E' Sept) Mitral Valve Regurgitant Flow Acceleration (MR Trace) Mitral Regurgitant Mean Pressure Gradient (MR Trace) Mitral Regurgitant Velocity Time Integral (MR Trace) Mitral Valve Mean Velocity (MV Trace) Mitral Valve Mean Pressure Gradient (MR Trace) Mitral Valve Mean Pressure Gradient (MR Trace) Mitral Valve Mean Pressure Gradient (MR Vmax) Mitral Regurgitant Peak Pressure Gradient (MR Vmax) Mitral Regurgitant Peak Velocity (MV Trace)
		 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 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' Avg) Mitral inflow E velocity to E' Lat ratio (E/E' Lat) Medial Mitral inflow E velocity to E' Sept ratio (E/E' Sept) Mitral inflow E velocity to E' Sept ratio (E/E' Sept) Mitral inflow E velocity to E' Sept ratio (MR Trace) Mitral Regurgitant Mean Pressure Gradient (MR Trace) Mitral Valve Mean Velocity (MV Trace) Mitral Valve Mean Pressure Gradient (MR Trace) Mitral Valve Mean Pressure Gradient (MV Trace) Mitral Valve Mean Pressure Gradient (MR Vmax) Mitral Valve Peak Pressure Gradient (MV Vmax)

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885	Mitral valve continued	 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 (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 Acceleration Time/Deceleration Time Ratio (MVAcc/Dec Time) Stroke Volume Index by Mitral Flow (MVA Planimetry, MVTrace)
886	Pulmonic Valve	 Pulmonic Insufficiency Peak Pressure Gradient (PR Vmax) Pulmonic Insufficiency End-Diastolic Pressure Gradient (PRTrace) Pulmonic Valve Peak Pressure Gradient (PV Vmax) 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)
887	Pulmonic valve continued	 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 Ejection Time (PV ET) QRS Complex to End of Envelope (Q-to-PV Close) Pulmonic Valve Acceleration to Ejection TIme Ratio (PV Acc Time, PVET)
888	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 (RVOTTrace) 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)
889	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) 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)
890	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)

891	Tricuspid valve continued	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)

892	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)
893		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)
	Mitral valve	Proximal Isovelocity Surface Area:
		Regurgitant Orifice Area (MR Radius)
		Proximal Isovelocity Surface Area:
		Radius of Aliased Point (MR Radius)
894		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)
895	Combination Mode measurements	Aliased velocity (Fix Villax)
		• Aortic Valve Area (Ao Root Diam, LVOT Vmax, AV Vmax)
	Aortic valve	Aortic Valve Area by Continuity Equation by Peak Velocity
		(Ao Root Diam, LVOT Vmax, AV Vmax)
896		 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,
		Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)
	Left ventricle	Cardiac Output Four Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)
897		Ejection Fraction Two Chamber, Single Plane,
051		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)
		• Ejection Fraction, Bi-Plane,
		Method of Disk (LVAd, LVAs, 2CH, 4CH)
	Left ventricle continued	Left Ventricle Stroke Volume, Bi-Plane,
898		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,
		• 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) Cardiac Output by Mitral Flow (MVA Planimetry, MV Trace, HR)
0.00		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 Tricuspid Flow (TV Planimetry, TV Trace, HR)
902	Combination Mode measurements	
903	Parameter: lists the mode, the measurement folder and the specific measurement	

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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Powerfully streamlined New GE LOGIQ Fortis

LOGIQ Fortis is the affordable, all-in-one solution for your ultrasound imaging needs. Powerfully streamlined and equipped with the most advanced technology, it helps users deliver on the promise of confident care in multiple clinical settings.

- head to toe, obese to thin, neonate to geriatric
- lifecycle solutions

LOGIQ Fortis. Your trusted companion for every body.

• **Exceeding your expectations** ... with next-generation imaging technologies for a wide range of patients and clinical applications—

• Optimizing your productivity ... with user-friendly apps and Al-based productivity tools, and the ability to scan on battery

 Maximizing your investment ... with a future-focused digital platform, robust cybersecurity protection, and value-added

OVERVIEW

MULTI-PURPOSE/ RADIOLOGY

The high-performing LOGIQ Fortis enables a full spectrum of ultrasound exams and procedures on any body type.

- Exceptional image quality with cSound[™] Architecture now including advanced Speckle Reduction Imaging (SRI)
- Whole body imaging with versatile XDclear[™] probes
- Advanced quantification and productivity tools, including 2D Shear Wave Elastography, Ultrasound-Guided Attenuation Parameter (UGAP), CEUS, and **Volume Navigation**

+ CLINICAL IMAGES



LOGIQ Fortis Overview



INTERVENTIONAL







INVESTMENT

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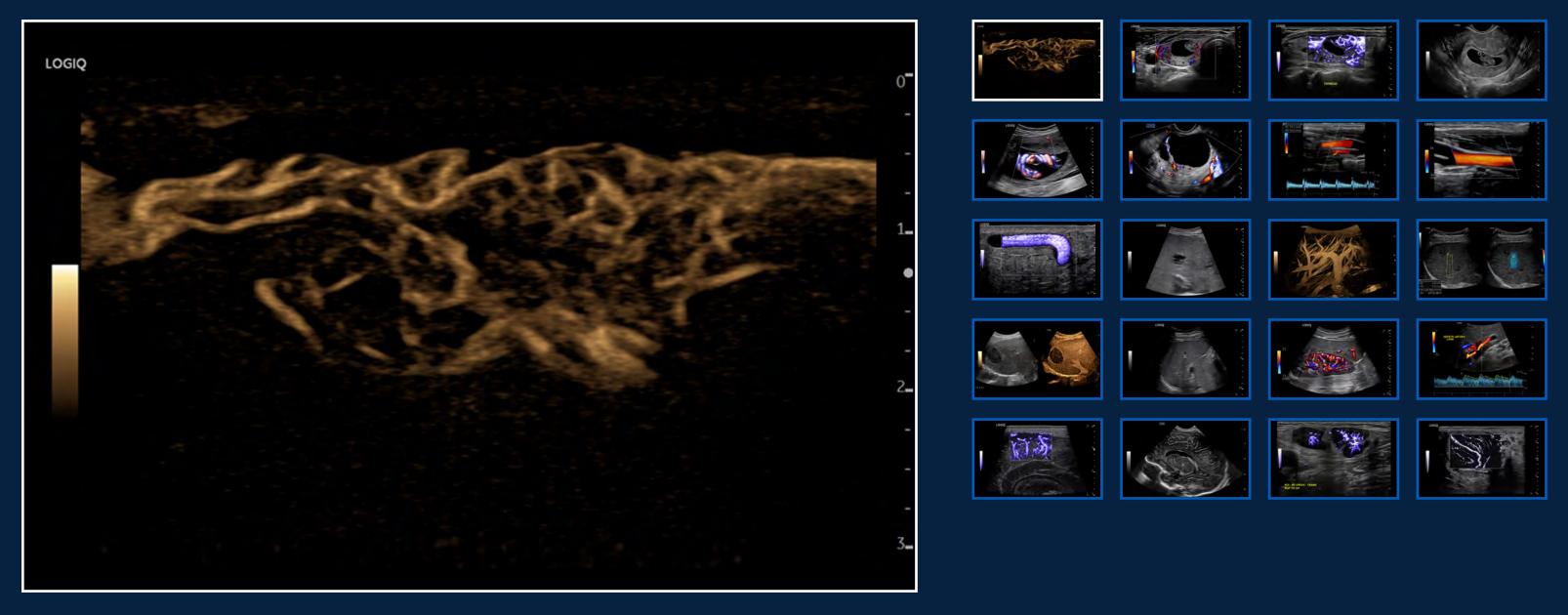




OVERVIEW

CLINICAL IMAGES | Head & Neck

Exceeding your expectations: whole body imaging



Flow Visualization, B-Flow in Thyroid, ML6-15-D

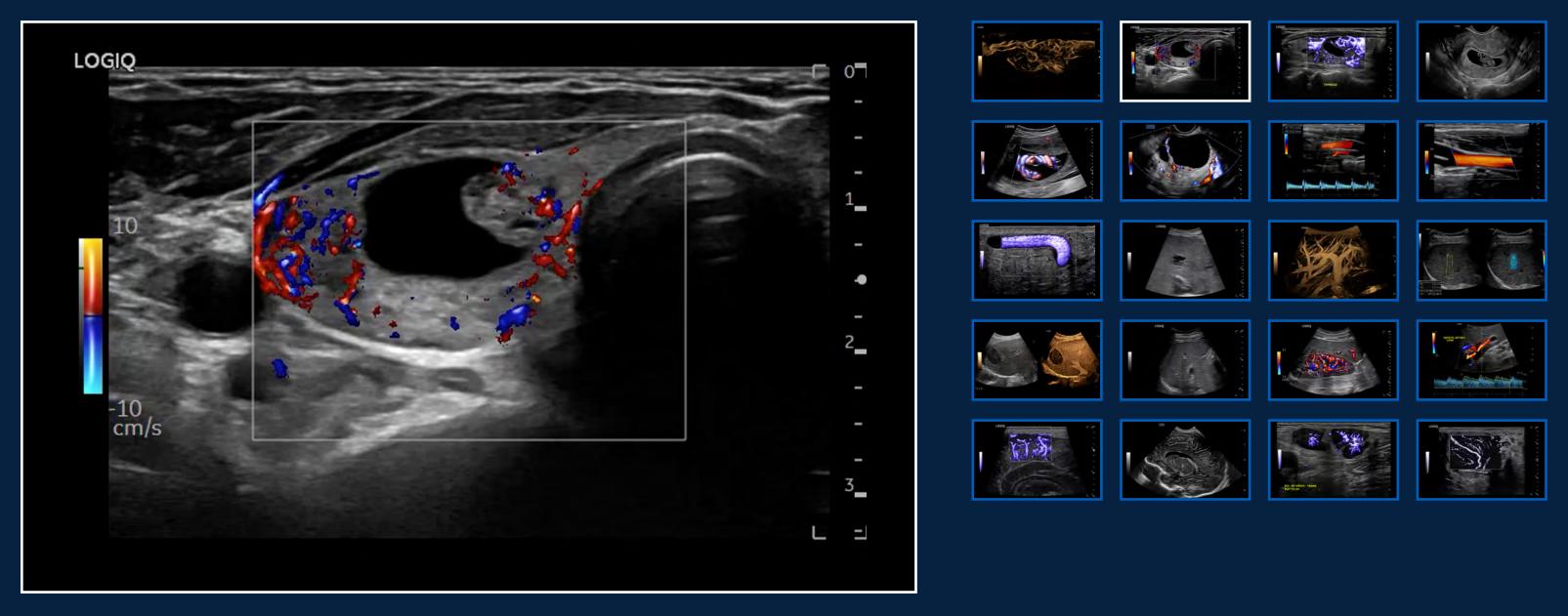
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CLINICAL IMAGES | Head & Neck

Exceeding your expectations: whole body imaging



Radiant*flow*[™] Color Flow in Thyroid, ML6-15-D

PRODUCTIVITY

INVESTMENT

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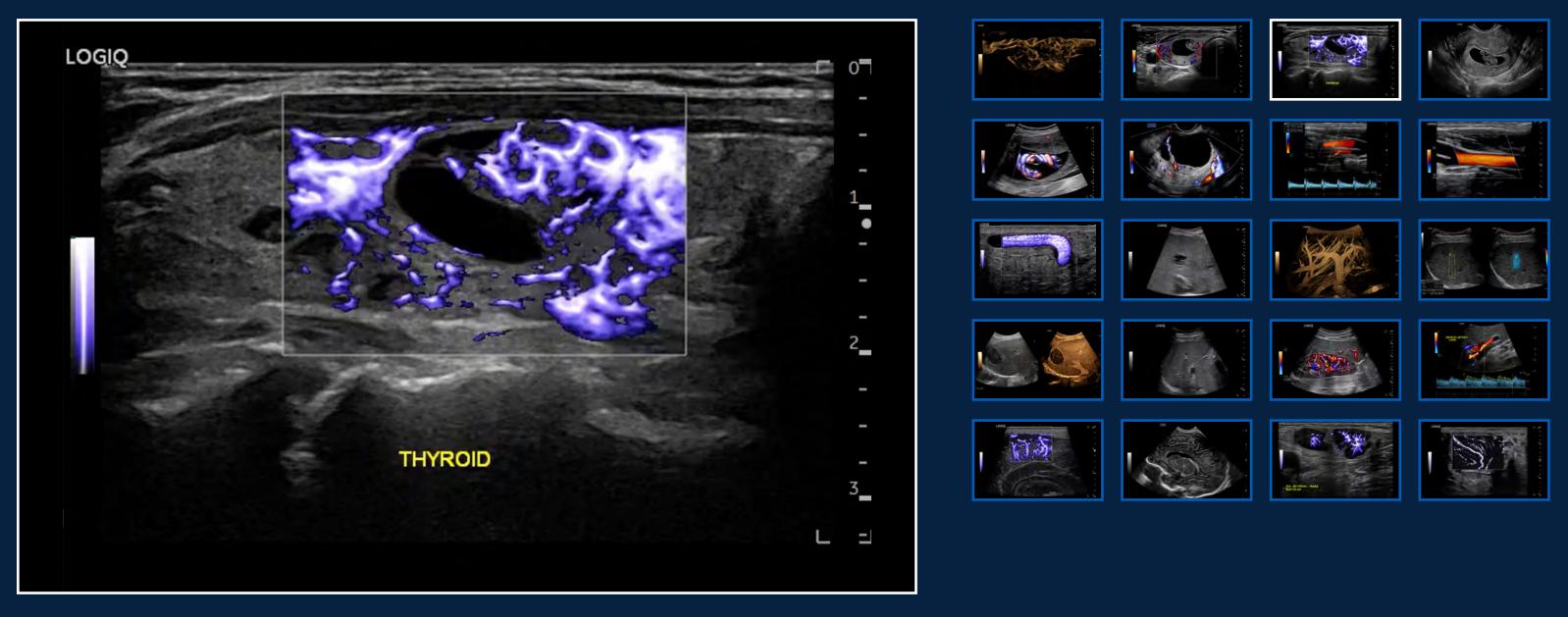




OVERVIEW

CLINICAL IMAGES | Head & Neck

Exceeding your expectations: whole body imaging



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

INVESTMENT

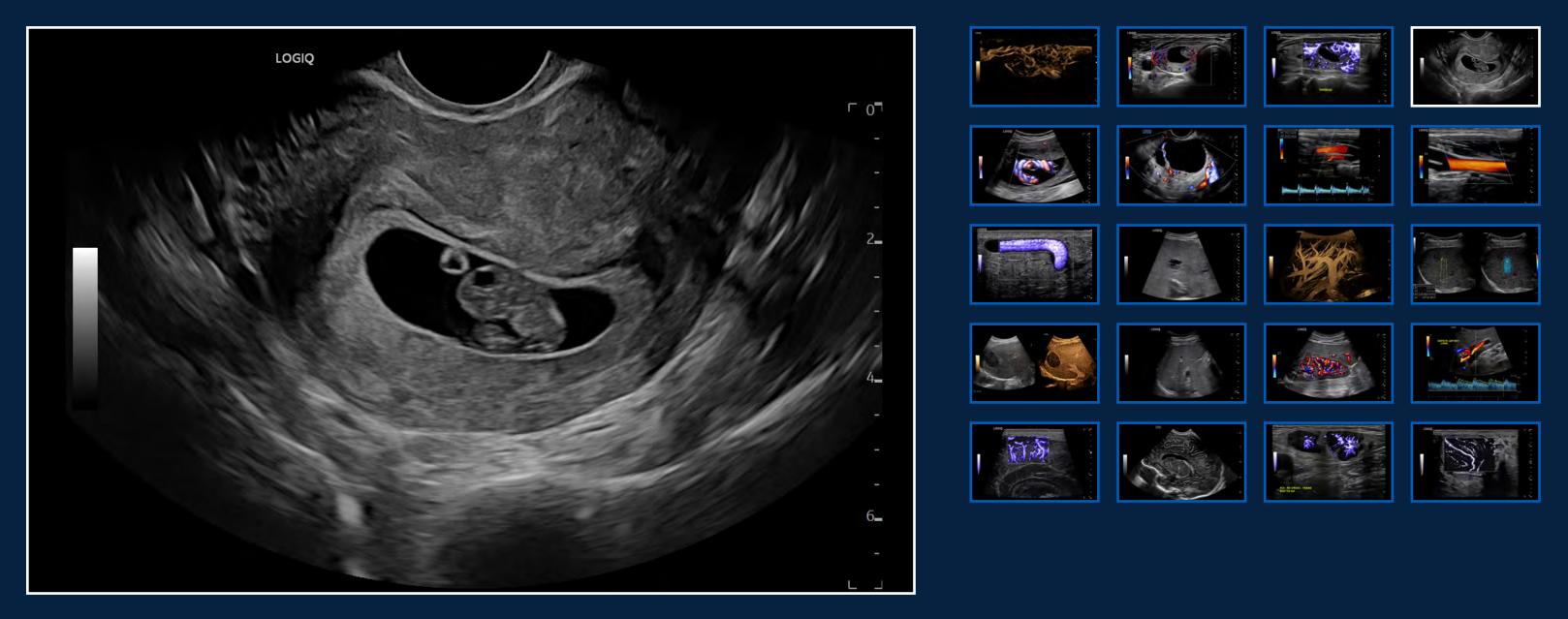
CONTACT





CLINICAL IMAGES | OB/GYN

Exceeding your expectations: whole body imaging



B-Mode with Advanced SRI Early Fetus and Yolk Sac, IC5-9-D

INVESTMENT

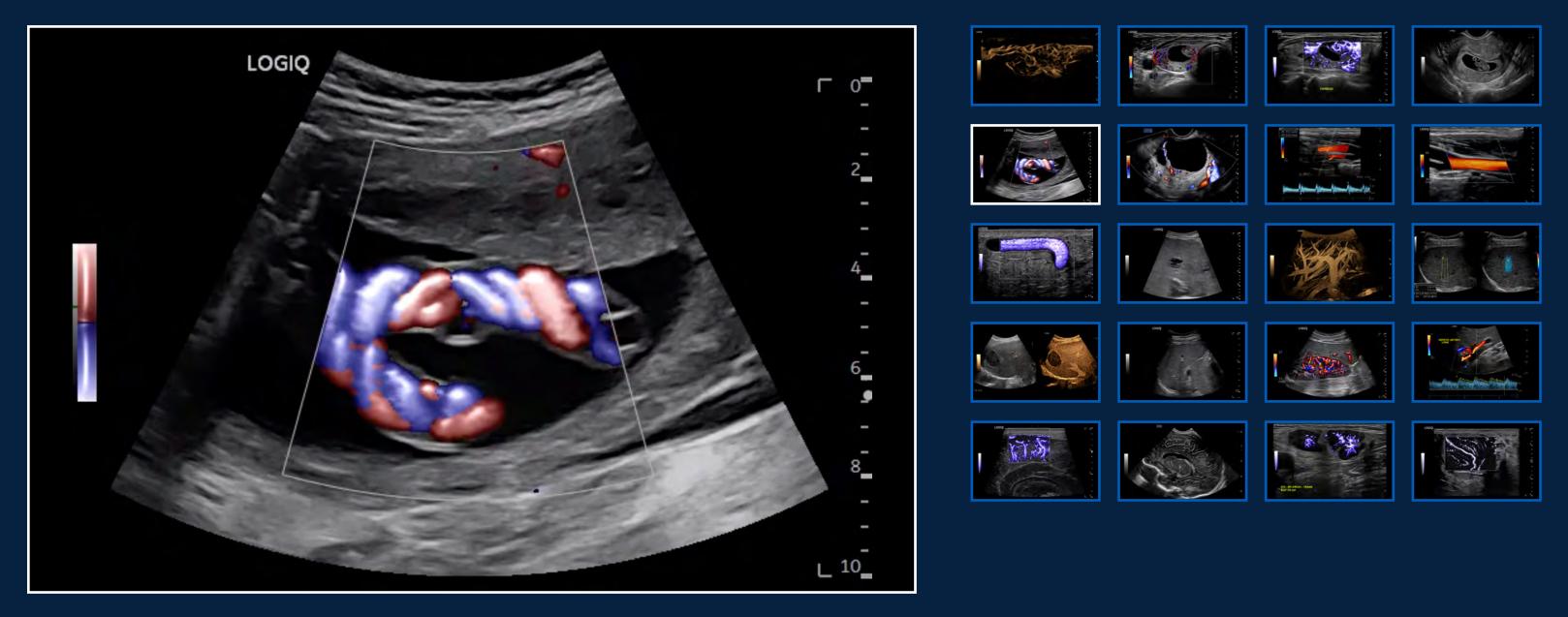
CONTACT





CLINICAL IMAGES | OB/GYN

Exceeding your expectations: whole body imaging



PDI with Radiant*flow* in Umbilical Cord, C1-6-D

INVESTMENT

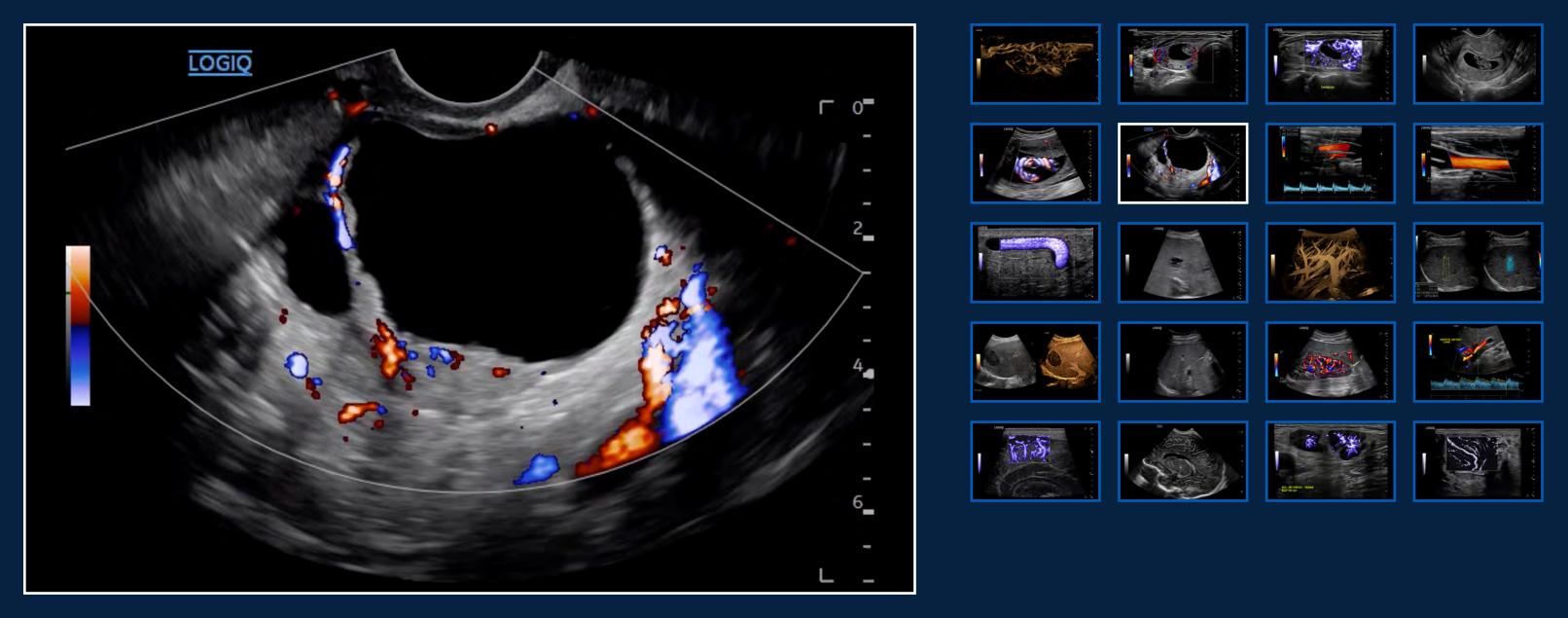
CONTACT





CLINICAL IMAGES | OB/GYN

Exceeding your expectations: whole body imaging



PDI of Ovary, IC5-9-D

INVESTMENT

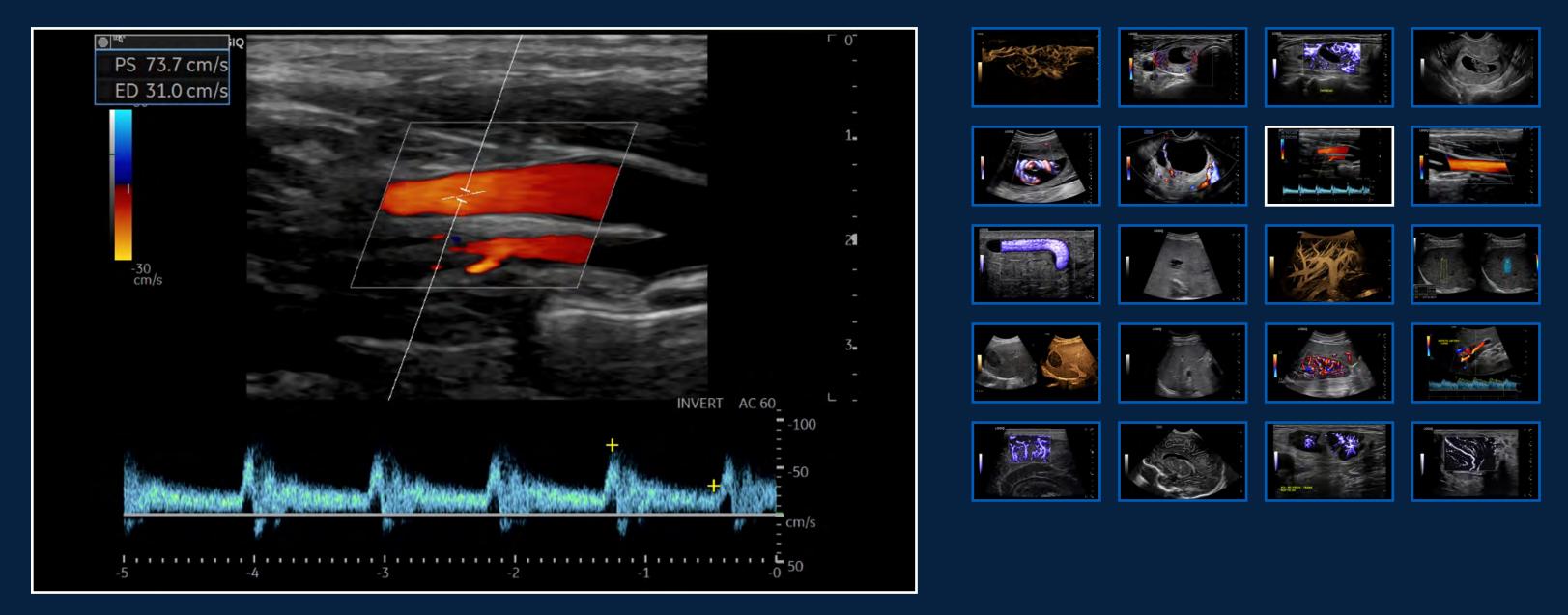
CONTACT





CLINICAL IMAGES | Vascular

Exceeding your expectations: whole body imaging



Color Flow and PW Doppler in Internal Carotid Artery, L2-9-D

INVESTMENT

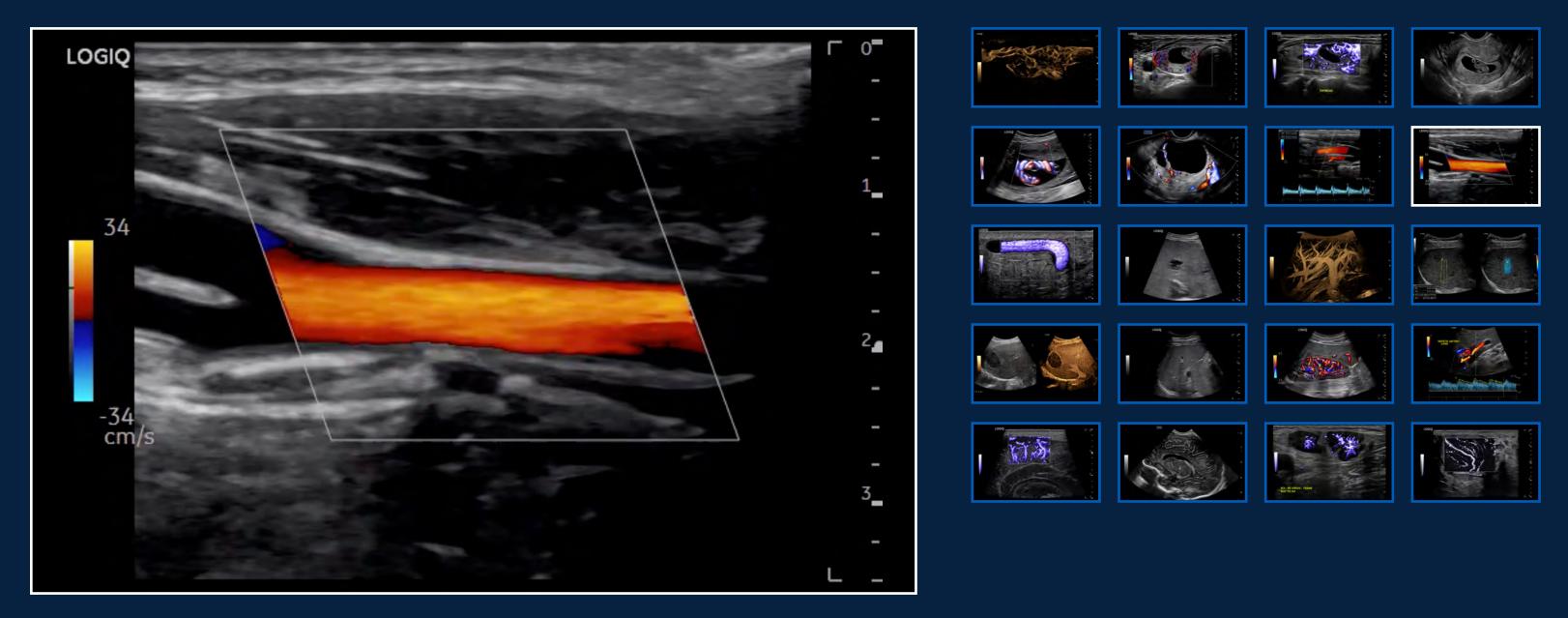
CONTACT





CLINICAL IMAGES | Vascular

Exceeding your expectations: whole body imaging



Color Flow Carotid, L2-9-D

INVESTMENT

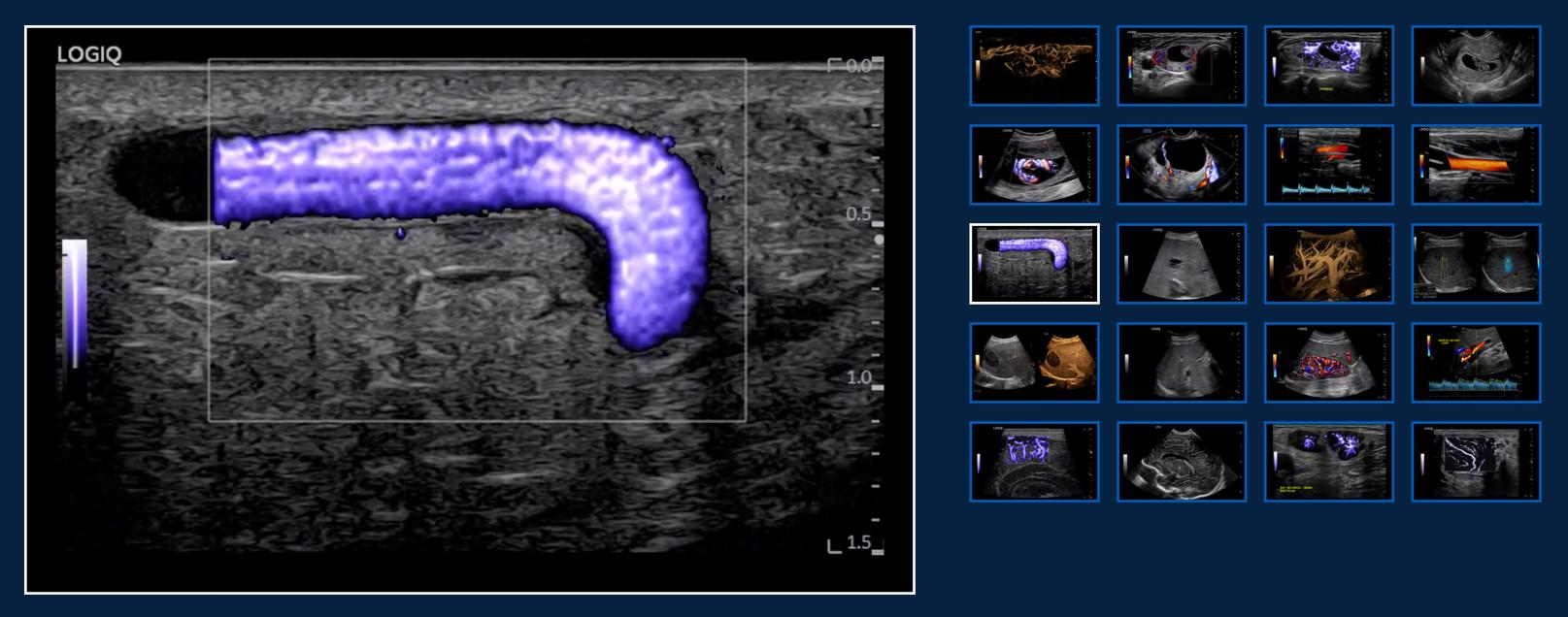
CONTACT





CLINICAL IMAGES | Vascular

Exceeding your expectations: whole body imaging



MVI Superficial Vein, L6-24-D

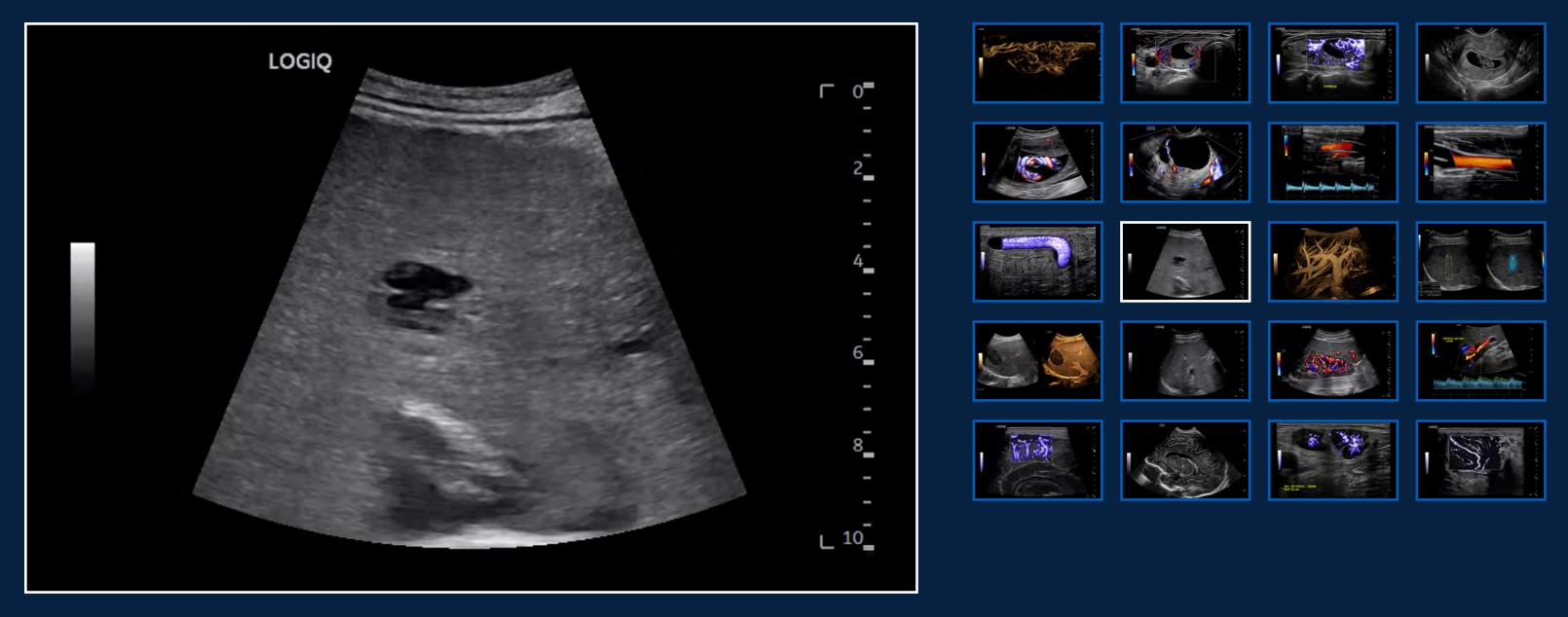
INVESTMENT

CONTACT





Exceeding your expectations: whole body imaging



B-Mode with Advanced SRI Liver with TIPS, C1-6-D

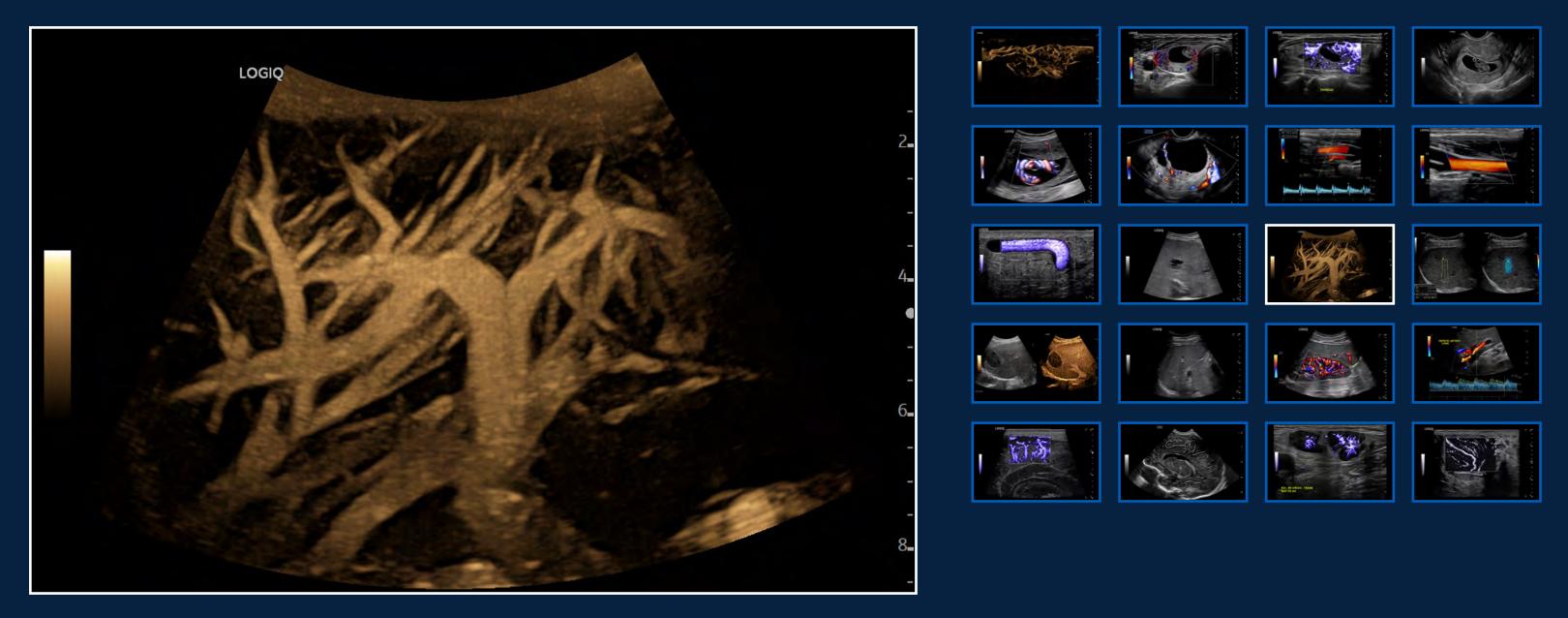
INVESTMENT

CONTACT





Exceeding your expectations: whole body imaging



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

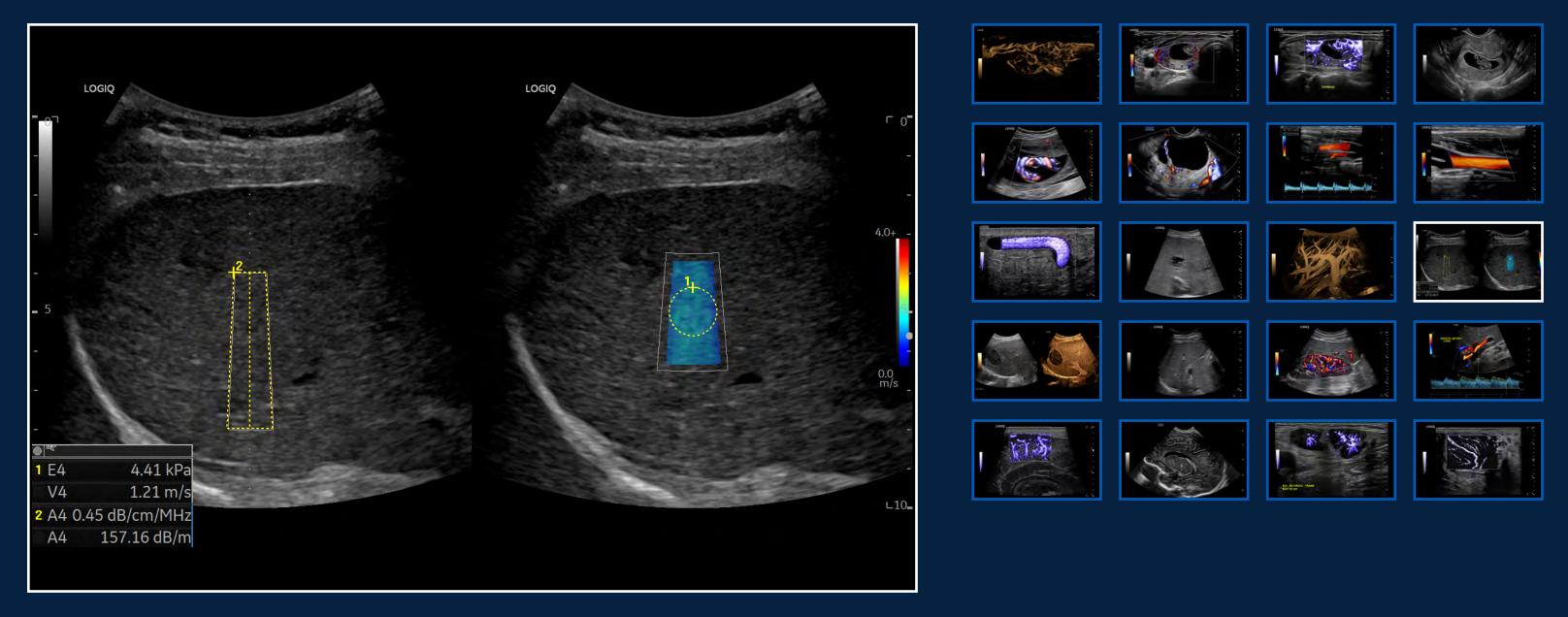
INVESTMENT

CONTACT





Exceeding your expectations: whole body imaging



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

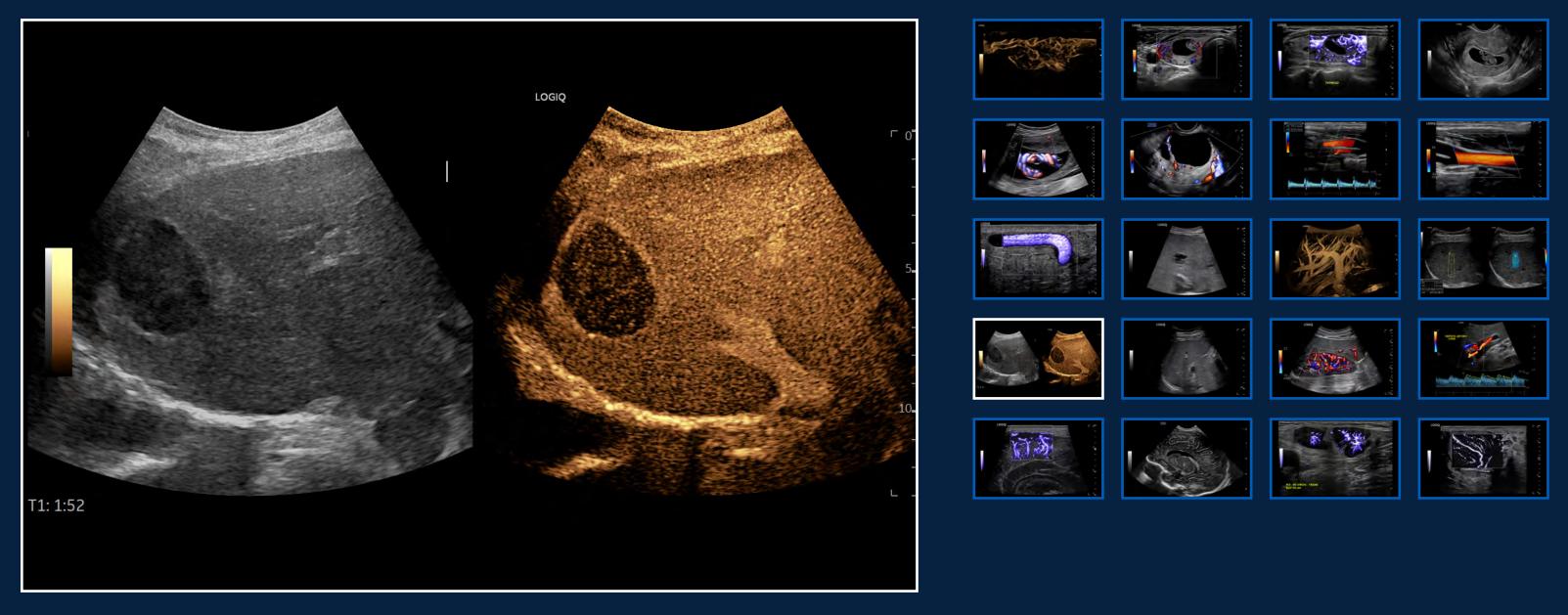
INVESTMENT

CONTACT





Exceeding your expectations: whole body imaging



Liver Lesion CEUS, C1-6-D

INVESTMENT

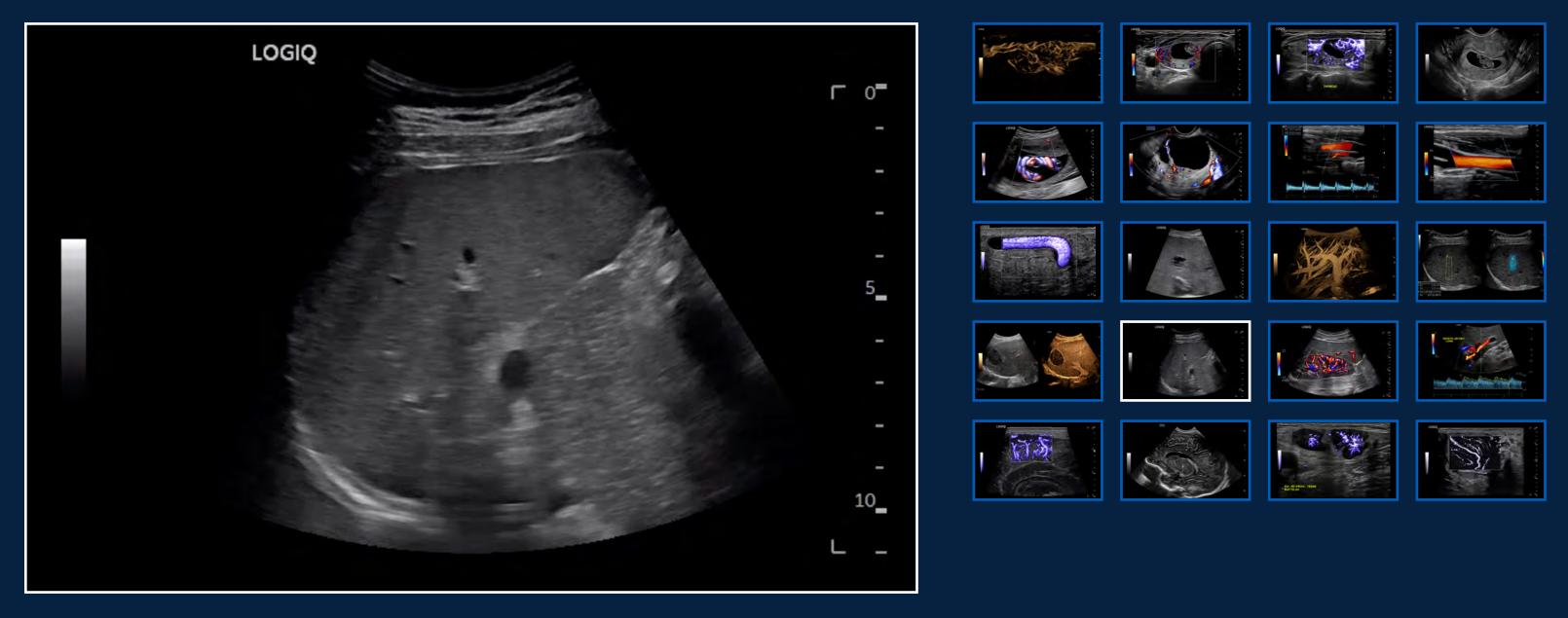
CONTACT





CLINICAL IMAGES | Spleen

Exceeding your expectations: whole body imaging



B-Mode with Advanced SRI Spleen, C2-9-D

INVESTMENT

CONTACT





CLINICAL IMAGES | Kidney

Exceeding your expectations: whole body imaging



Color Flow with Radiant*flow*, C2-9-D

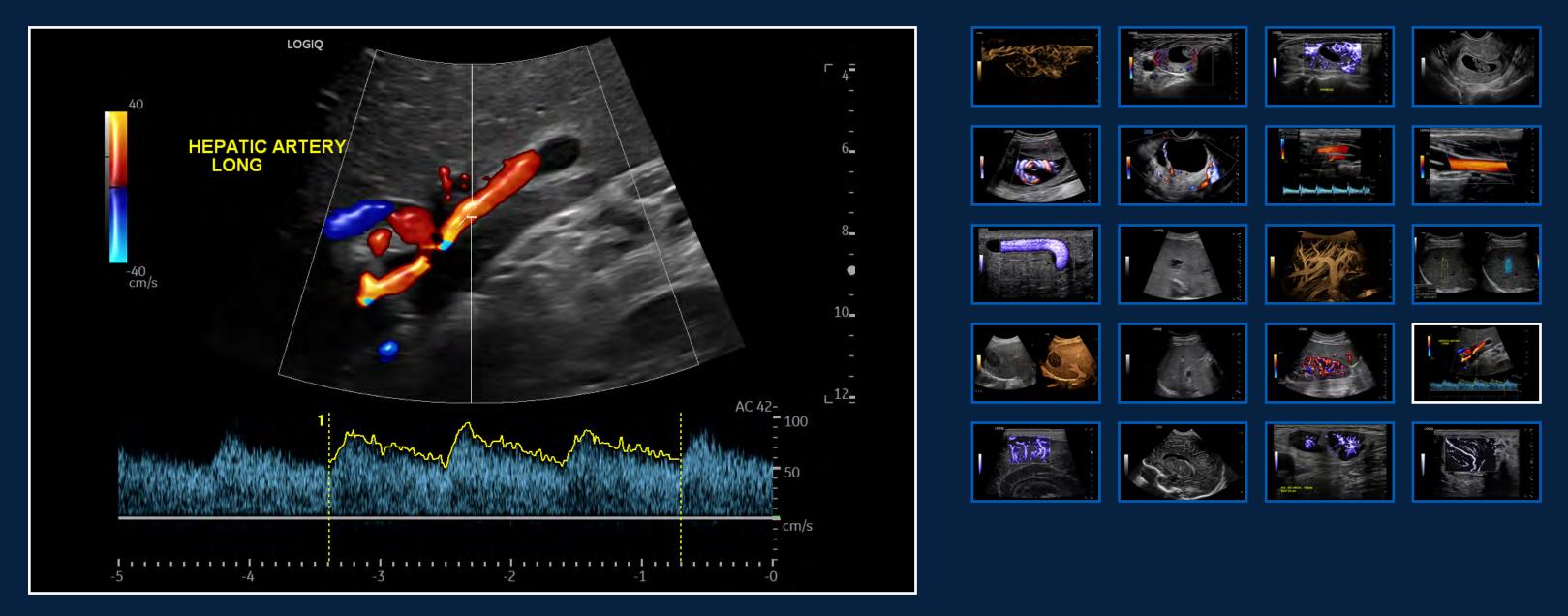
INVESTMENT

CONTACT



CLINICAL IMAGES | Pediatrics

Exceeding your expectations: whole body imaging



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

INVESTMENT

CONTACT





CLINICAL IMAGES | Pediatrics

Exceeding your expectations: whole body imaging



MVI with Radiant*flow* neonatal brain, L6-24-D

INVESTMENT

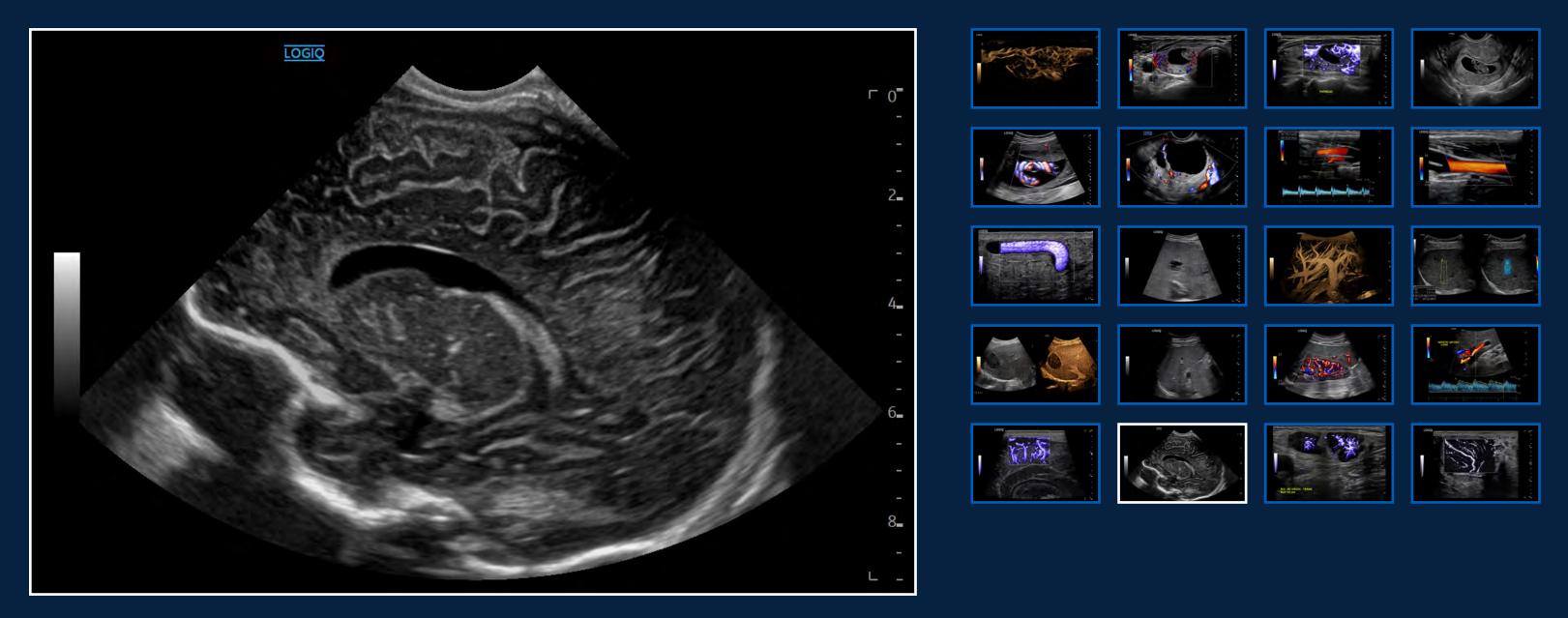
CONTACT





CLINICAL IMAGES | Pediatrics

Exceeding your expectations: whole body imaging



Neonatal head, C3-10-D

INVESTMENT

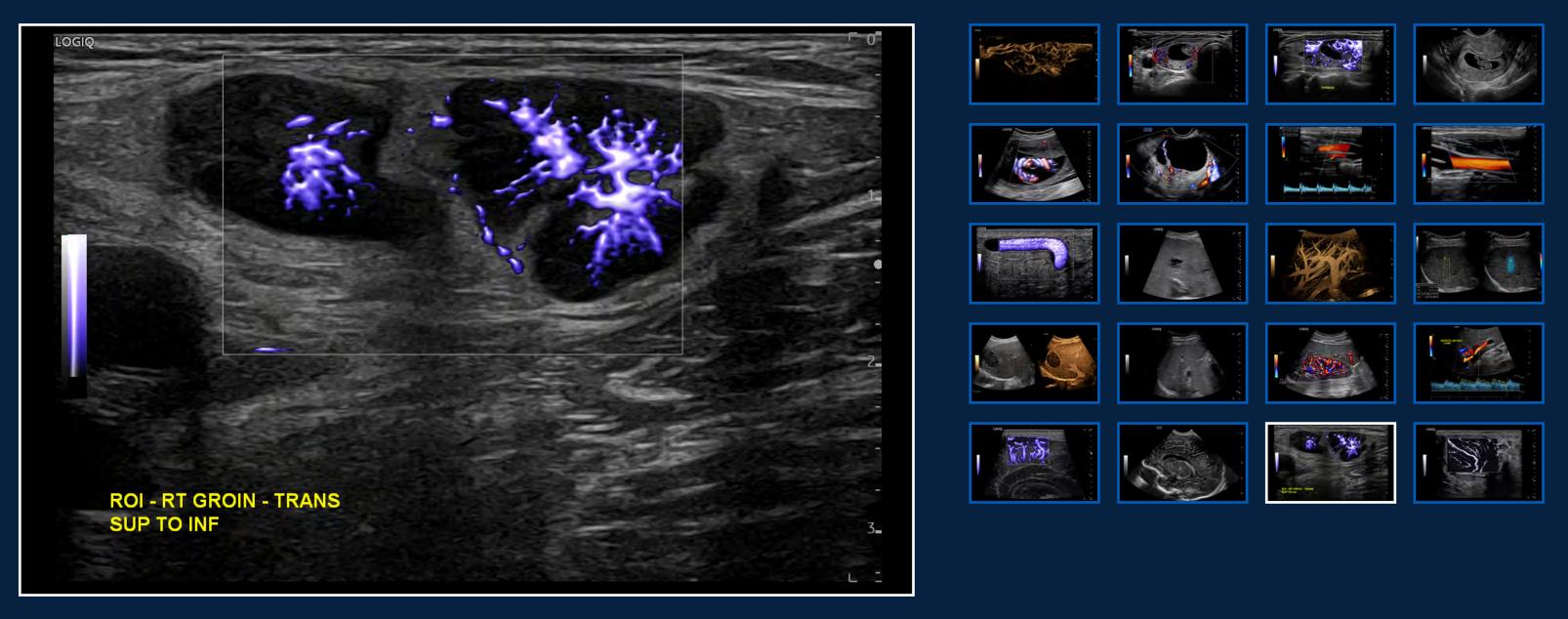
CONTACT



OVERVIEW

CLINICAL IMAGES | Small Parts

Exceeding your expectations: whole body imaging



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

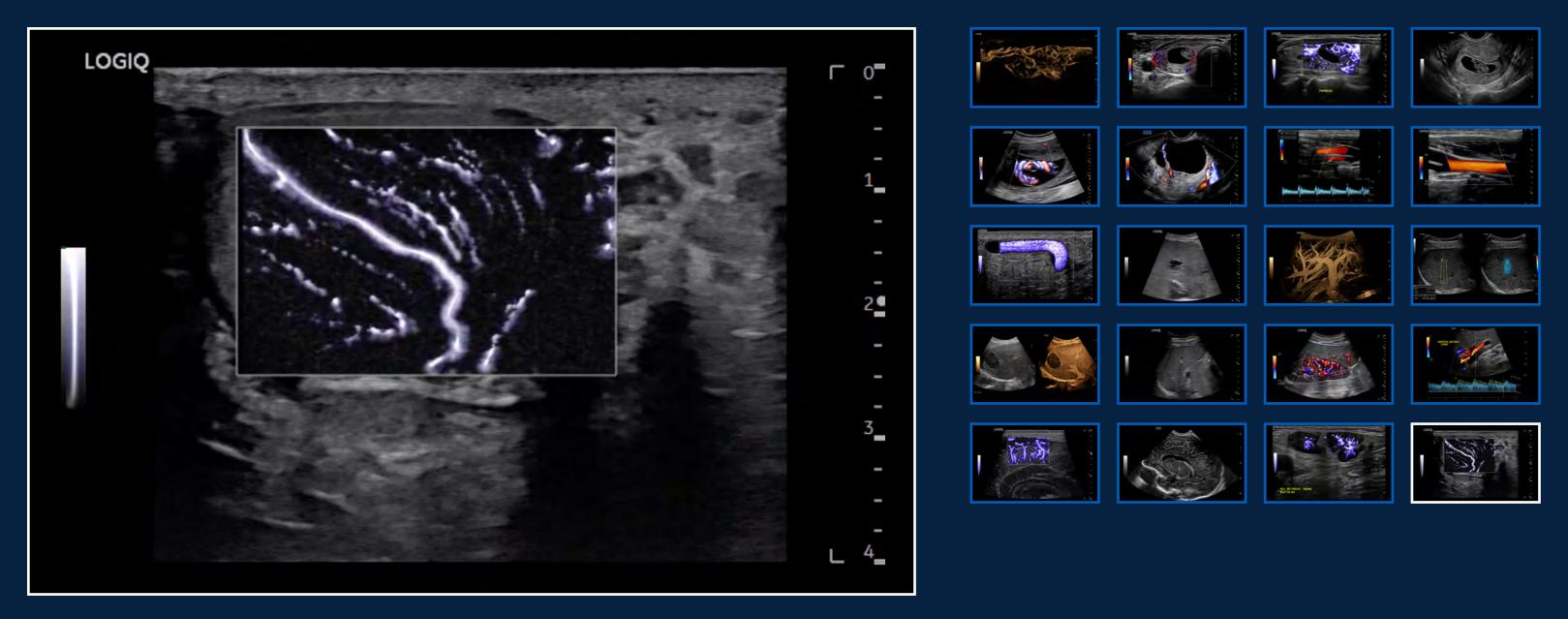
INVESTMENT

CONTACT



CLINICAL IMAGES | Small Parts

Exceeding your expectations: whole body imaging



INVESTMENT

CONTACT



CARDIOLOGY

OVERVIEW

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

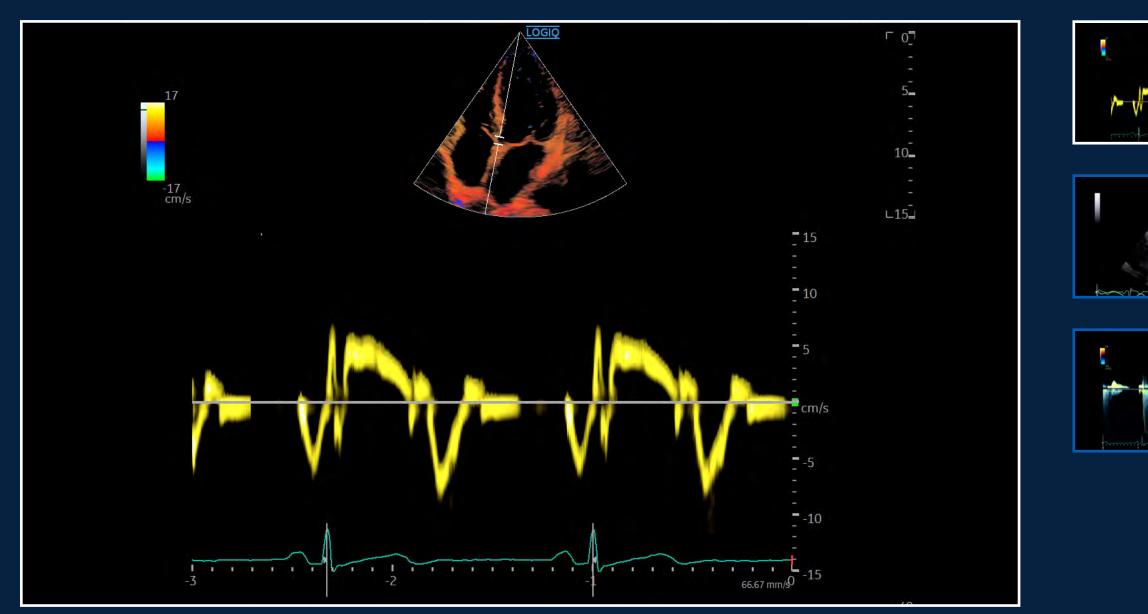


INVESTMENT

CONTACT



Acquire highly detailed cardiac images within efficient exam times, even in challenging cases

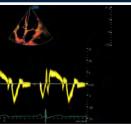


TVI and TVD Apical 4 Chamber View, M5Sc-D

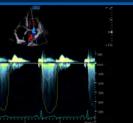
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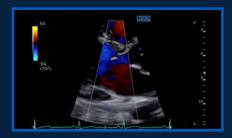
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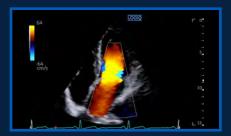






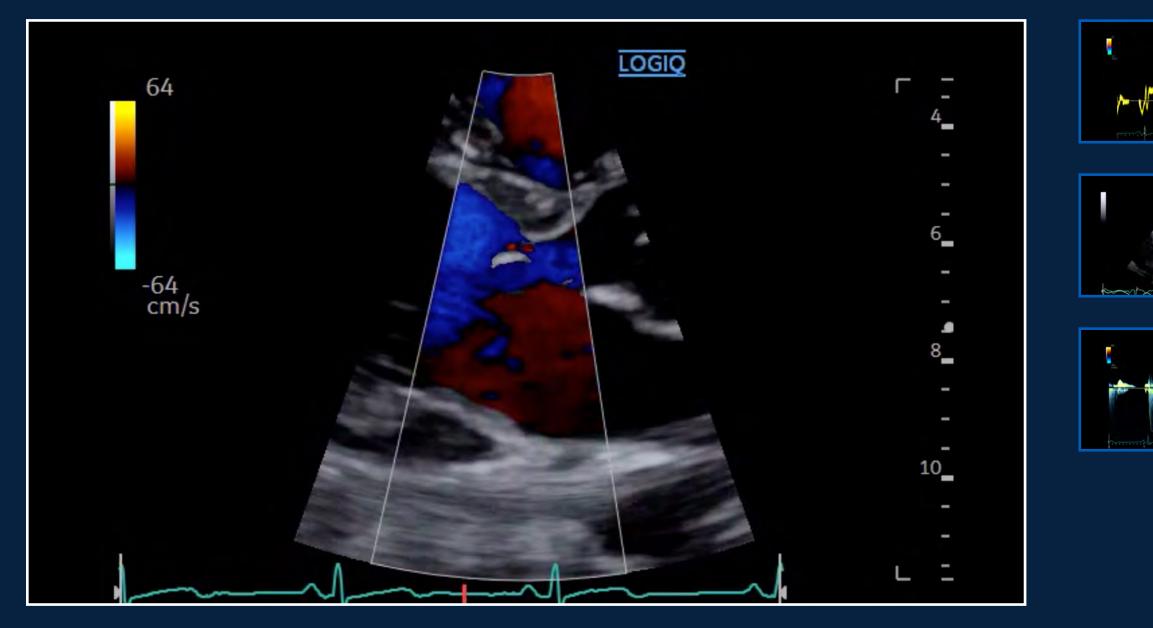








Acquire highly detailed cardiac images within efficient exam times, even in challenging cases

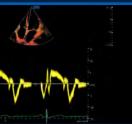


Color Flow in Cardiac Parasternal Long Axis View, M5Sc-D

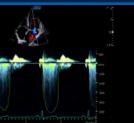
INVESTMENT

CONTACT



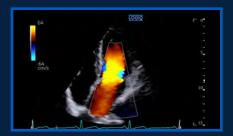






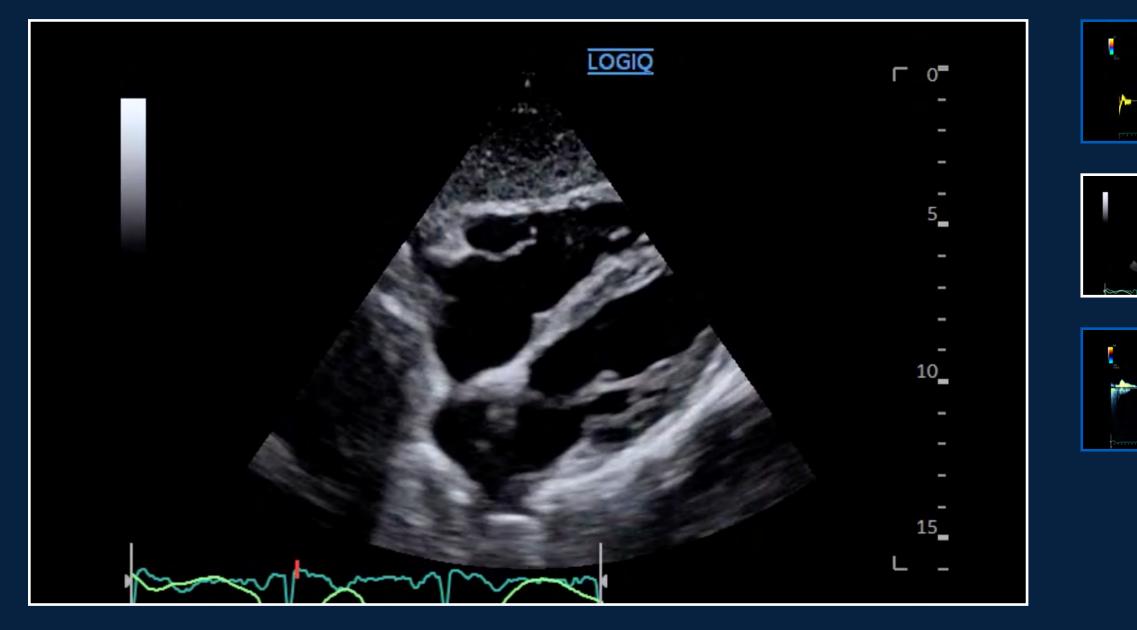








Acquire highly detailed cardiac images within efficient exam times, even in challenging cases

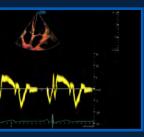


B-Mode with Advanced SRI ECG and Respirometer Display, M5Sc-D

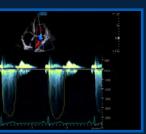
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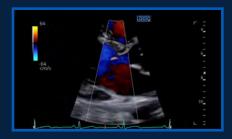
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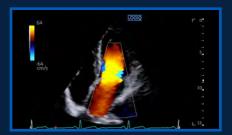






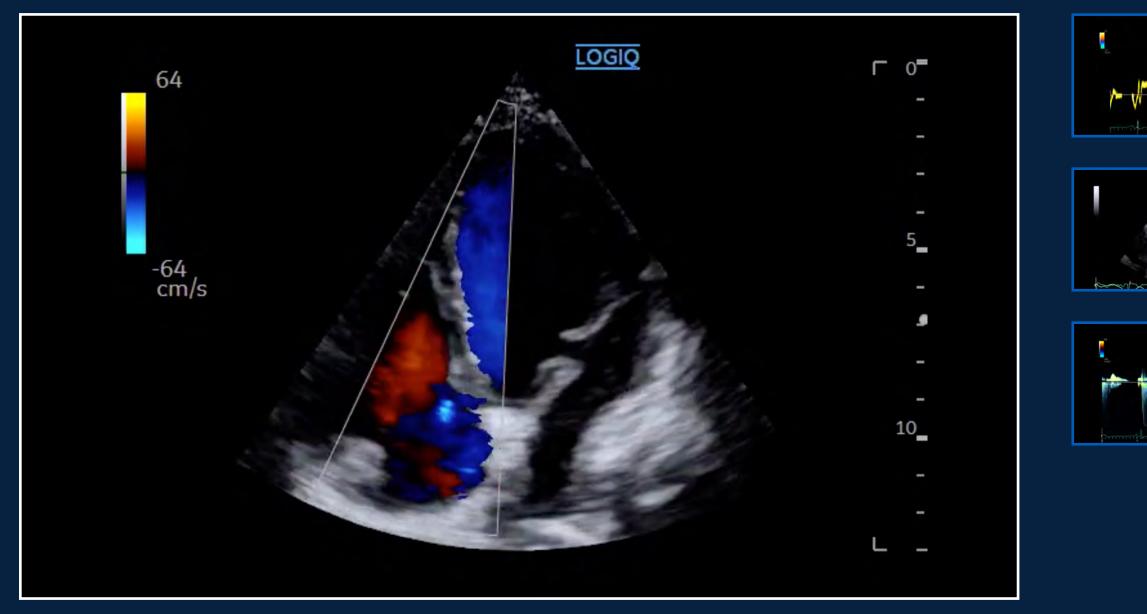








Acquire highly detailed cardiac images within efficient exam times, even in challenging cases

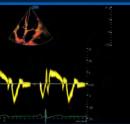


Color Flow Apical 4 Chamber View, M5Sc-D

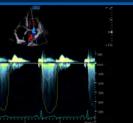
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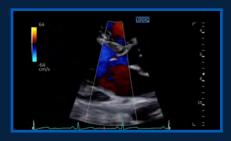
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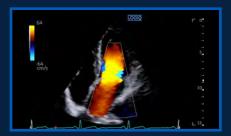






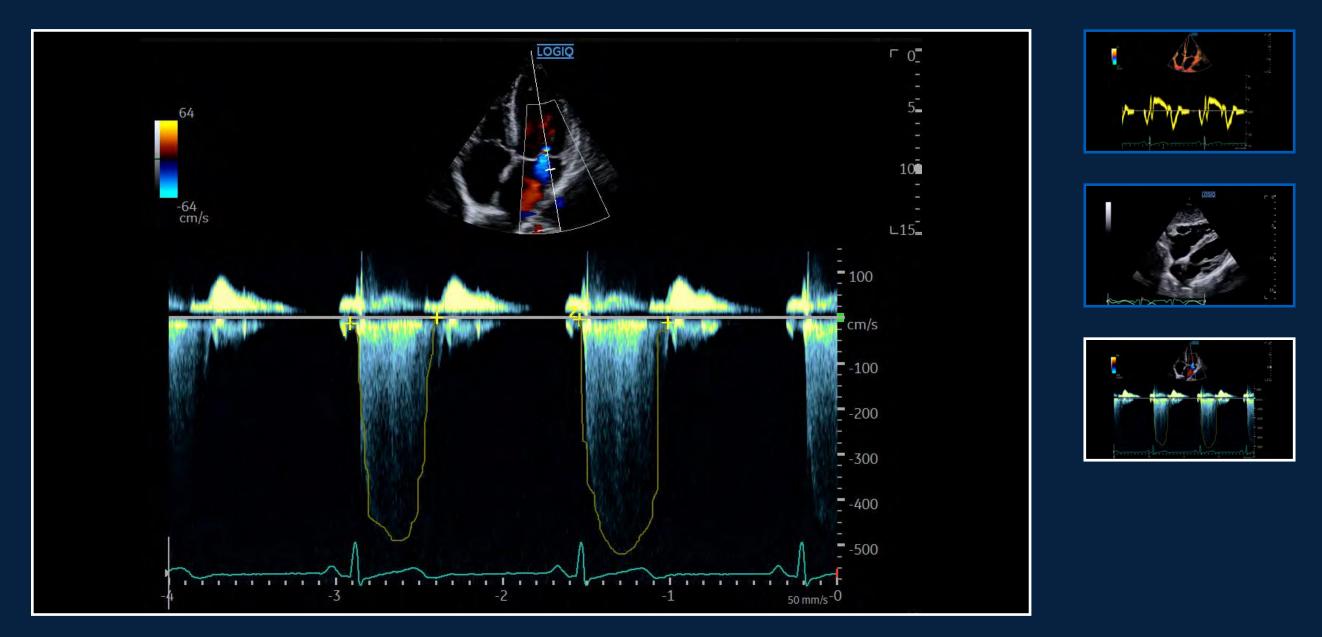








Acquire highly detailed cardiac images within efficient exam times, even in challenging cases

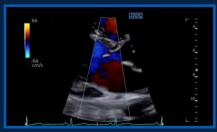


Color Flow and CW Doppler Mitral Valve, M5Sc-D

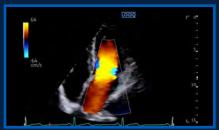
INVESTMENT

CONTACT



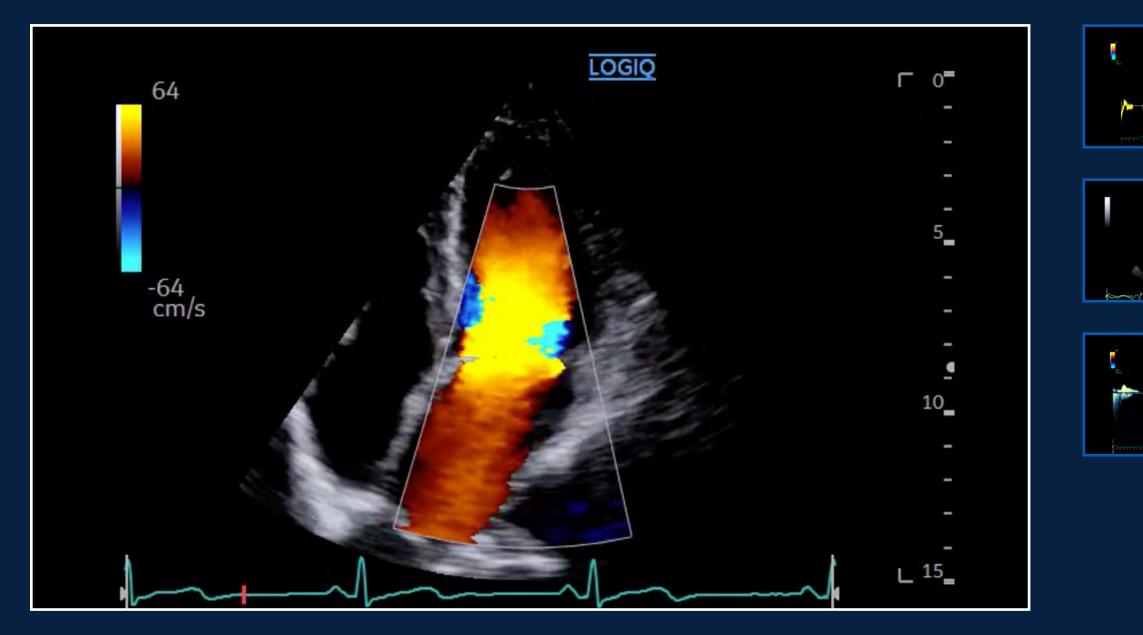








Acquire highly detailed cardiac images within efficient exam times, even in challenging cases

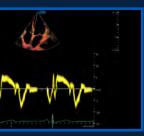


Color Flow Apical 4 Chamber View Mitral Valve, M5Sc-D

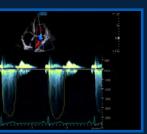
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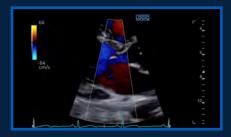
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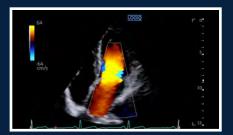












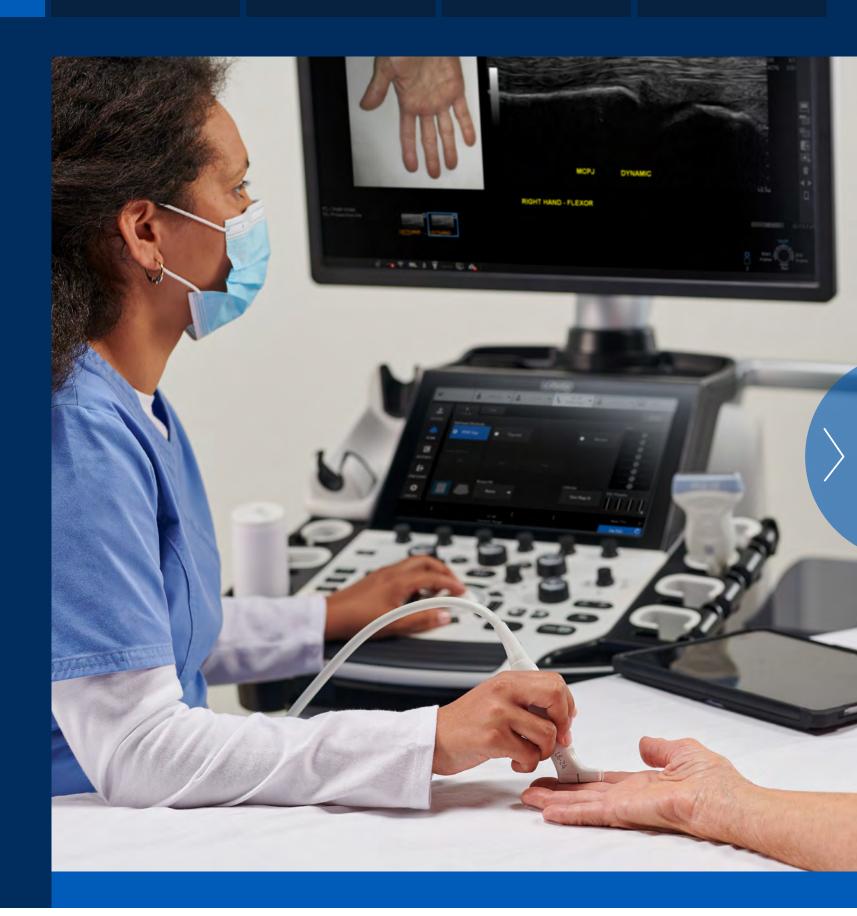
OVERVIEW

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

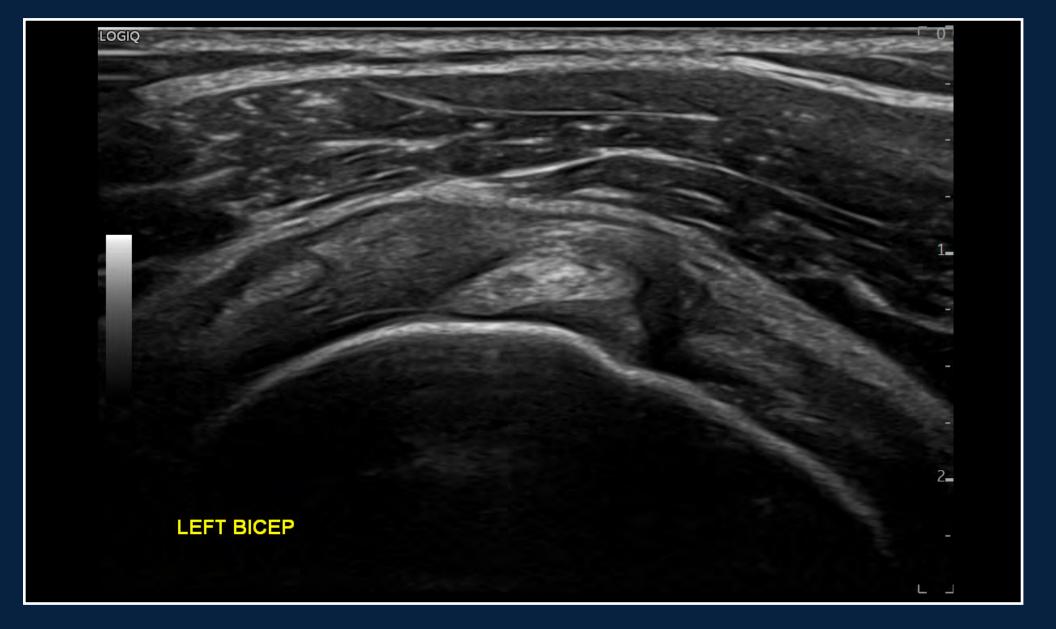


INVESTMENT

CONTACT

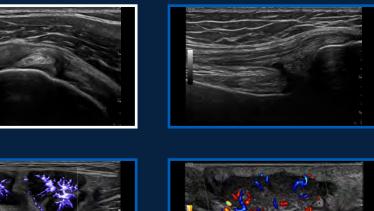


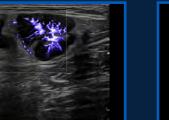
Excellent detail and contrast resolution to support in-depth understanding of tissue, pathology, blood flow, and inflammation

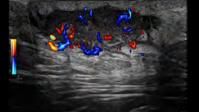


B-Mode with Advanced SRI Shoulder, ML6-15-D





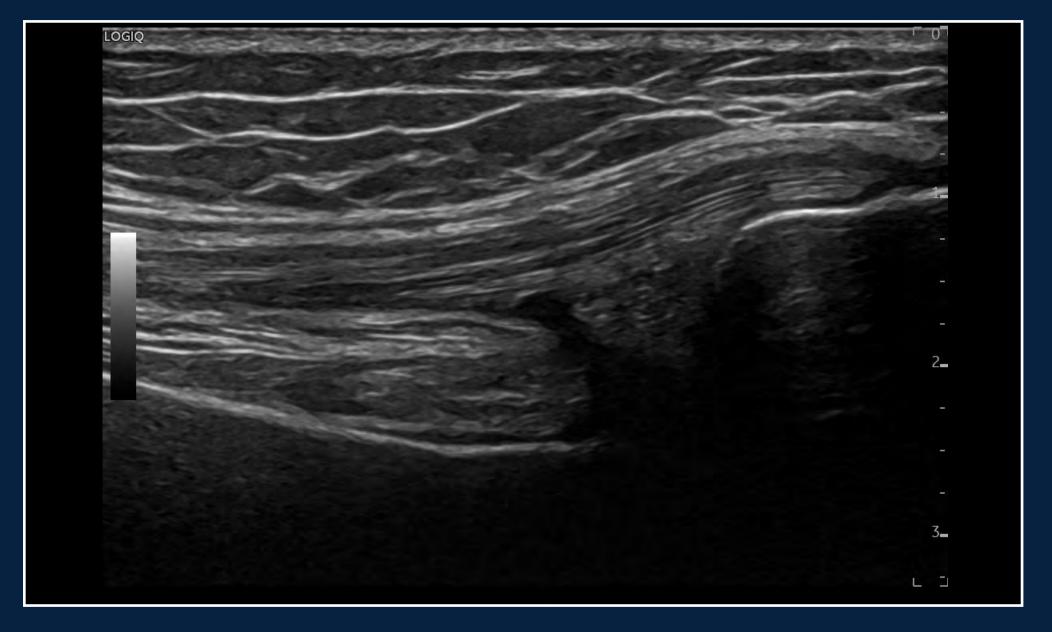


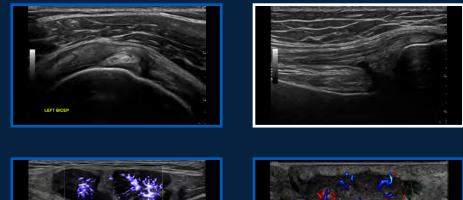


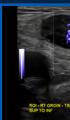




Excellent detail and contrast resolution to support in-depth understanding of tissue, pathology, blood flow, and inflammation

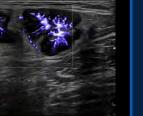


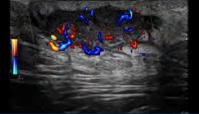




B-Mode with Advanced SRI Knee Tendon, ML6-15-D



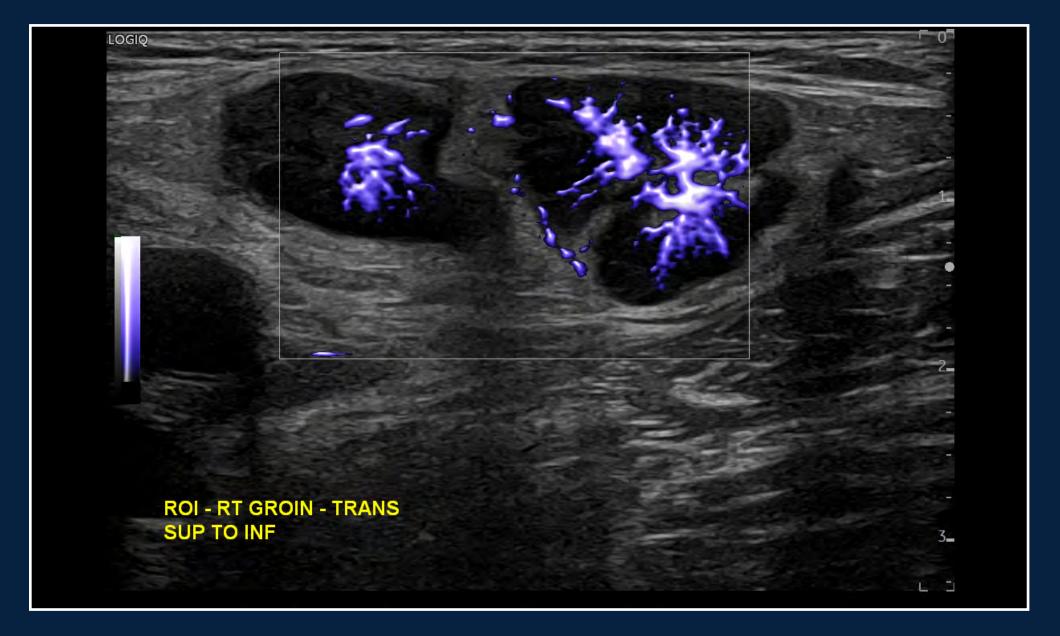






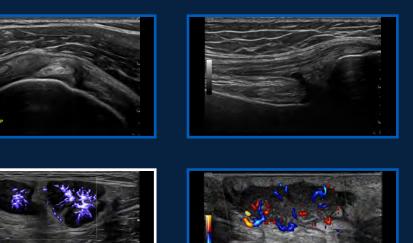


Excellent detail and contrast resolution to support in-depth understanding of tissue, pathology, blood flow, and inflammation



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

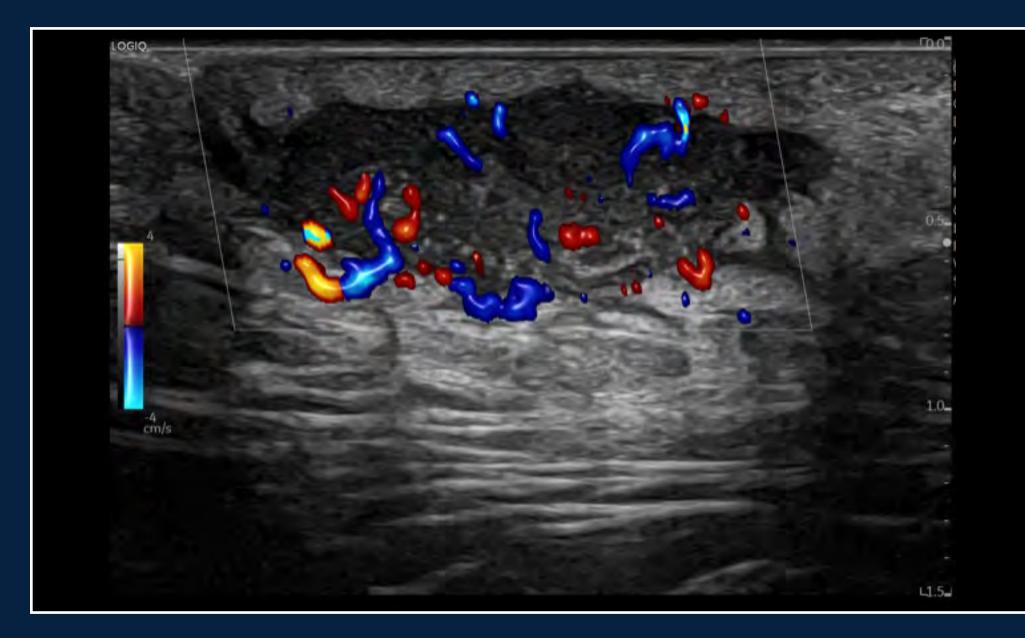


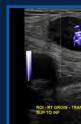






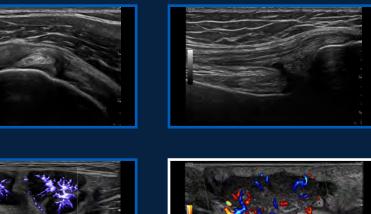
Excellent detail and contrast resolution to support in-depth understanding of tissue, pathology, blood flow, and inflammation





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







BREAST

OVERVIEW

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,[™] an AI-based decision support tool providing quantitative risk assessment aligned to a BI-RADS[®] category^{*}

+ CLINICAL IMAGES



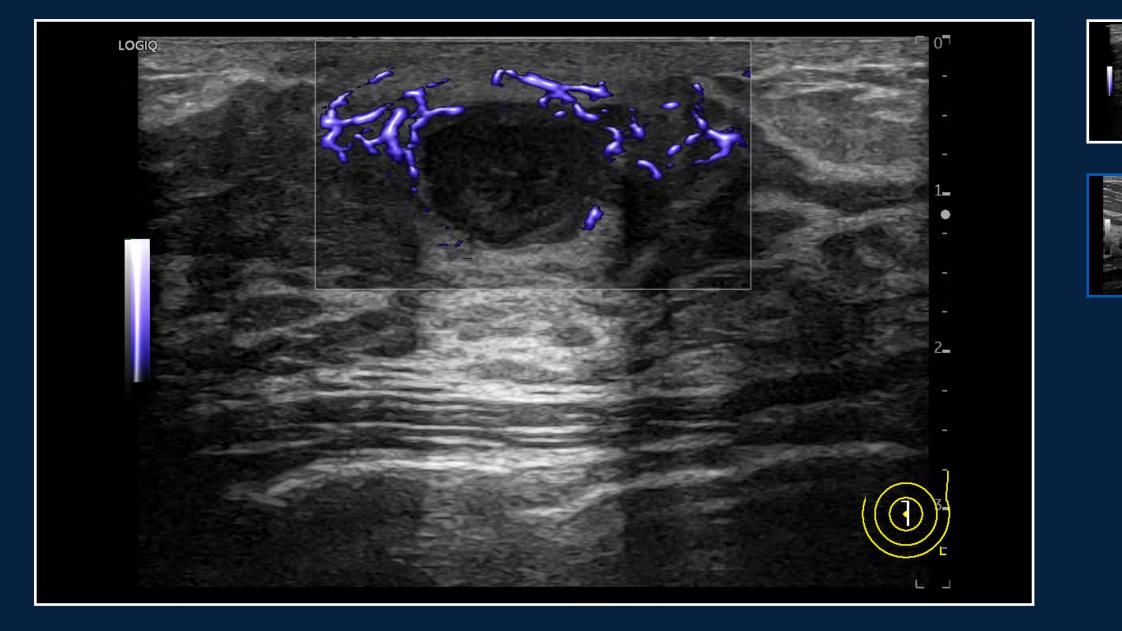
INVESTMENT

CONTACT



CLINICAL IMAGES | Breast

Highly detailed images to detect and characterize breast disease efficiently



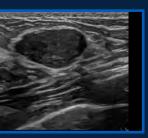
MVI Breast, ML6-15-D

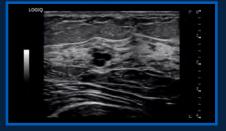
INVESTMENT

CONTACT







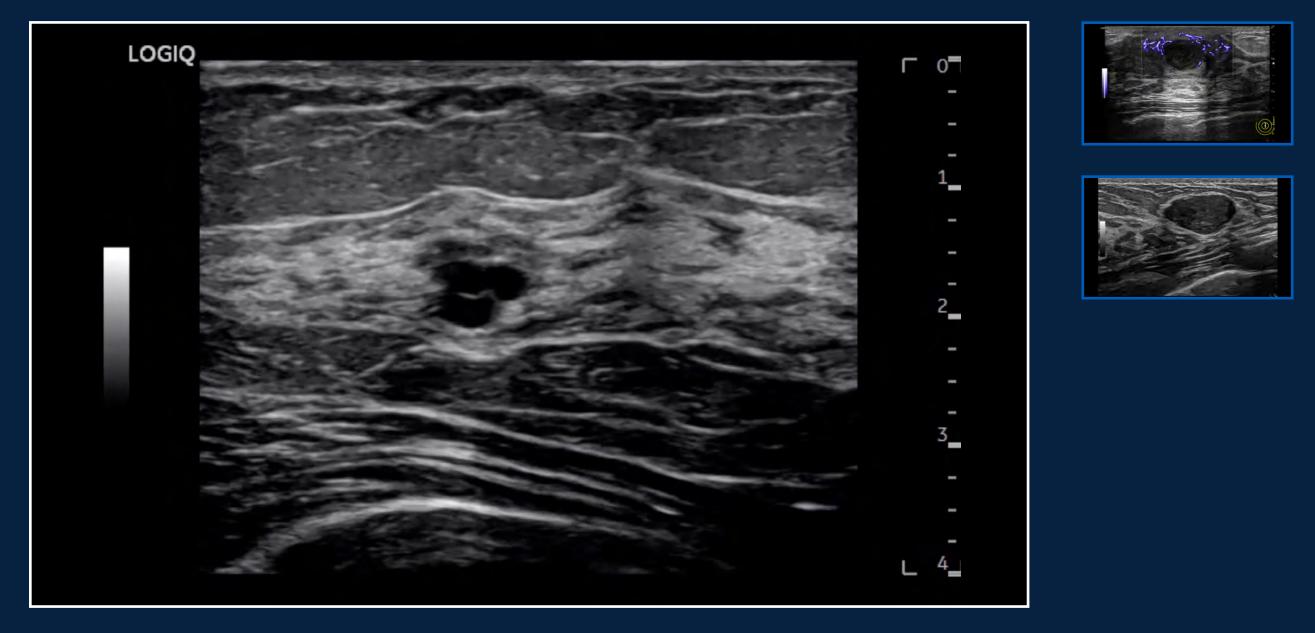






CLINICAL IMAGES | Breast

Highly detailed images to detect and characterize breast disease efficiently

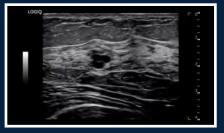


B-Mode with Advanced SRI in Breast, L3-12-D

INVESTMENT

CONTACT



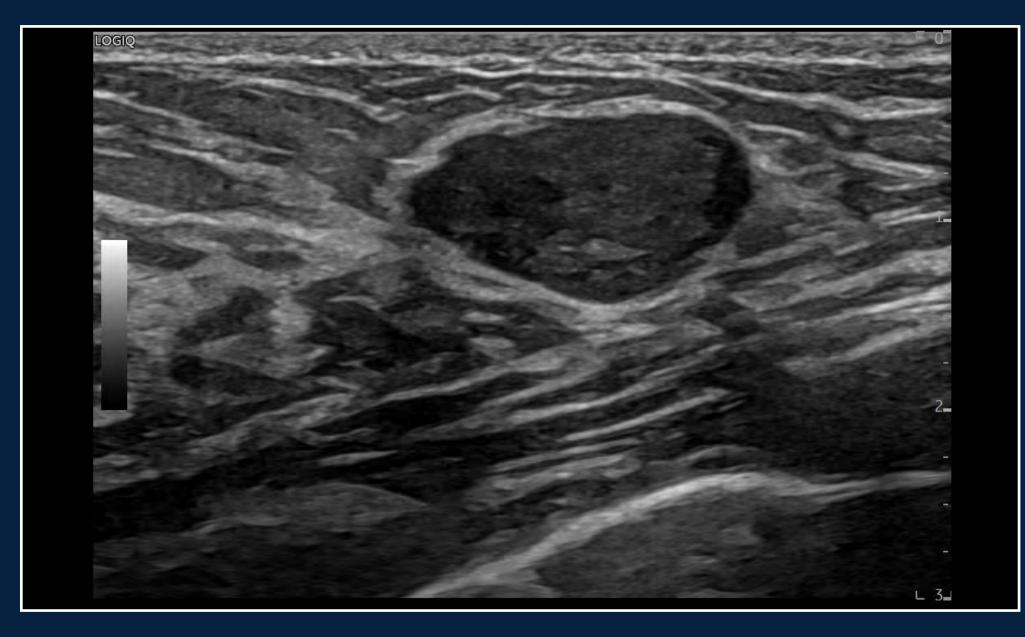


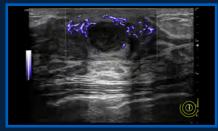


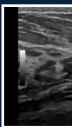


CLINICAL IMAGES | Breast

Highly detailed images to detect and characterize breast disease efficiently





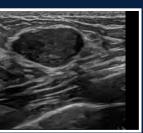


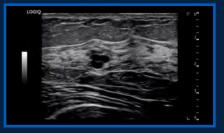
B-Mode with Advanced SRI in Breast, ML6-15-D

INVESTMENT

CONTACT









OVERVIEW

PRODUCTIVITY

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



INVESTMENT

CONTACT

OVERVIEW

PRODUCTIVITY

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[™] remote support to iCenter[™] performance analytics—help optimize asset performance and utilization
- SonoDefense multi-layer cybersecurity and data privacy protection guards your investment 24/7



INVESTMENT

CONTACT







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

INVESTMENT



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

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



LOGIQ Fortis[™]

A powerfully streamlined, next-generation ultrasound solution





gehealthcare.com

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, LOGIO 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[™] 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.

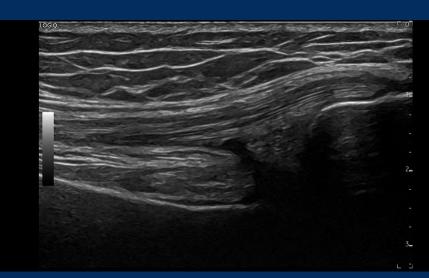
LOGIQ Fortis at work

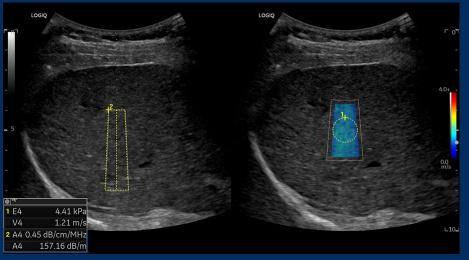


Contrast enhanced liver lesion, C2-9-D



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

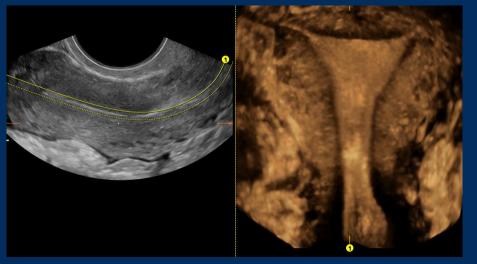




Hepatic Assistant – UGAP and Shear Wave Elastography, C1-6-D

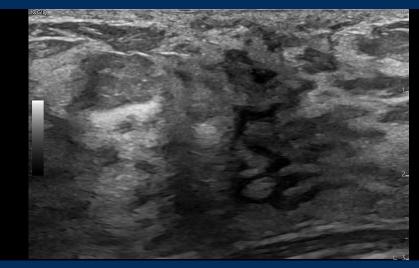


Color flow of mitral valve apical 4-chamber view, M5Sc-D



OmniView dual screen, RIC5-9-D

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

A to A 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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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.

gehealthcare.com

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°

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		System standard features	
B-Mode		Advanced user interface with high-resolution 12.1" display touch panel	
M-Mode		Automatic optimization	
Color Flow Mode (CFM)		CrossXBeam [™]	
B-Flow [™] (Option)		Speckle Reduction Imaging (SRI-HD, Advanced SRI Type 1)	
Extended Field of View (LOGIQ	View)	Fine angle steer	
Power Doppler Imaging (PDI)		-	
PW Doppler		Coded harmonic imaging	
CW Doppler (Option)		Virtual convex	
Volume Modes (3D/4D)	• 3D Static	Patient information database	
(Option)	• 4D Real Time	Image archive on integrated CD/DVD and hard drive	
Anatomical M-Mode		Advanced 3D	
Coded Contrast Imaging (Optio	n)	Real-time automatic Doppler calculations	
Strain Elastography (Option)		OB calculations	
B-Steer+ (Option)		Fetal trending	
Shearwave Elastography (Optio	on)	Multigestational calculations	
UGAP (Option)		Hip dysplasia calculations	
		Gynecological calculations	
Scanning methods		Vascular calculations	
Electronic sector		Urological calculations	
Electronic convex		Renal calculations	
Electronic linear		Cardiac calculations	
Mechanical volume sweep		InSite [™] capability	
Probe types		On-board electronic documentation	
		Auto CF/PW positioning feature	
Sector phased array		Privacy and security, including user and rights management	
Convex array		LOGIQView	
Micro convex array		Breast productivity package (Option)	
Linear array		Thyroid productivity package (Option)	
Matrix array		External USB printer connection	
Volume probes (4D)		Network printer support	
Split crystal		HDMI output (available for compatible devices)	
		The in output (available for compatible devices)	

System overview (cont.)

Options	Peripheral options	
Tricefy®	 Integrated options for Digital B&W thermal printer DVD video recorder 	
DICOM	Digital color thermal printer	
B-Flow		
Auto IMT	Digital A6 color thermal printer	
Compare assistant	Foot switch with programmable functionality	
Scan assistant	Console protective cover	
OB measure assistant	LOGIQ smart • Photo Assistant device apps • Remote Control	
Color quantification	CRF-200U card reader (for Japan)	
Strain Elastography		
Elastography quantification	Display modes	
Advanced privacy and security (vulnerability scan)	Live and stored • Full size and split screen – both w/ display format • humbnails. For still and CINE.	
Power assistant and scan on battery	Review image format • 4x4, and thumbnails. For still and CINE	
Storage bins	Timeline display • Independent Dual B or CrossXBeam/	
Shear wave elastography	PW Display	
Volume navigation	CW Top/bottom selectable display format	
UGAP	Side/side selectable format	
Hepatic assistant	Virtual convex	
Coded Contrast Imaging		
Stress echo	Simultaneous capability	
Cardiac Strain (Automatic Function Imaging)	B or CrossXBeam/PW	
On-board reporting	B or CrossXBeam/CW (Option)	
TVI	B or CrossXBeam/CFM or PDI	
Wireless LAN	B/M	
CW	B/CrossXBeam	
DVR	B-Flow/PW	
Tablet tools	Real-time Triplex Mode	
Advanced probes	B or CrossXBeam + CFM or PDI/PW	
KOIOS	Selectable alternating modes	
SonoNT SonoIT	B or CrossXBeam/PW	
Advanced SRI Type 2		
	B or CrossXBeam + CFM (PDI)/PW	
	B/CW (Option)	

B/CW (Option)

System overview (cont.)

M-Mode

Doppler Mode

• Gain

• Gain

• Time scale

• Time scale

Sample volume

depth and width

• Doppler frequency

Systemeter						
Multi-image (split/quad screen)		Display annotation (cont.)				
Live and/or frozen			Color Flow Doppler	• Line density		
B or CrossXBeam + B or CrossXBeam/CFM or PDI				Frame averagingColor Scale, 3 types: power, directional		
PW/M				PDI, and symmetrical velocity imaging		
Independent CINE pla	ayback			 Color velocity range and baseline Color threshold marker 		
				Color gainPDI		
Display annotation				Spectrum inversion		
Patient name: first, la	ast, and middle			Doppler frequency		
Patient ID			TGC curve			
Alternate patient ID			Acoustic frame rate			
Age, sex, and date of	birth		CINE gage, image nur	CINE gage, image number/frame number		
Hospital name		Body pattern: multiple human and animal types				
Date format: three	• MM/DD/YY	• DD/MM/YY	Application name			
types selectable	• YY/MM/DD		Measurement results	;		
Time format: two types selectable	• 24 hours	• 12 hours	Operator message			
Gestational age	• LMP	• GA	Displayed acoustic output	 TIS: Thermal Index Soft Tissue TIC: Thermal Index Cranial (Bone) 		
from Probe name	• EDD	• BBT	·	 TIB: Thermal Index Bone MI: Mechanical Index 		
			0/ of moving and a			
Map names		% of maximum power output				
Probe orientation		Biopsy guideline and zone				
Depth scale marker		Heart rate				
Lateral scale marker						
Image depth			General cu	stom paramotors		
Zoom depth			General sys	stem parameters		
B-Mode	• Gain	• Dynamic range	System setup			
	Imaging frequencyGray map	Frame averagingSRI-HD	Pre-programmed cat	Pre-programmed categories		
	Glay map			the second se		

• Dynamic range

• Velocity and/or

• Angle

• PRF

Spectrum inversion frequency scale

• Wall filter

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; const individual probe specifications 	 Gain Frame averaging Frequency Frame rate CrossXBeam B colorization Reject Suppression SRI-HD ult

Digital M-Mode Adjustable Acoustic power • Gain • Dynamic range • Gray scale map Frequency Sweep speed M colorization M display format

Rejection

Anatomical M-Mode

M-Mode cursor adjustable at any plane

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

M & A capability

Available with Color Flow Mode

Digital Spectral Doppler Mode

Adjustable	 Acoustic power Dynamic range Transmit frequency PW colorization Sweep speed Sample volume length Spectrum inversion Baseline shift Time resolution 	 Velocity scale range Angle correction Steered linear Trace method 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 Flash suppression Shortcuts 	 Color maps, including velocity-variance maps Line density Steering angle Threshold Auto ROI placement and steering on linear

Digital Power Doppler Imaging

Adjustable

Acoustic power Color maps, • Gain including Velocity scale range velocity-variance Wall filter maps Packet size • Line density Steering angle

- Spatial filter
- Frame average
- Accumulation mode
 Flash suppression

Threshold

Shortcuts

Continuous Wave Doppler (Option)

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

Steerable CW mode included

t	Adjustable	 Acoustic power Dynamic range Transmit frequency CW colorization Sweep speed Angle correction Trace method Baseline shift 	 Gain Gray scale map Wall filter Velocity scale range Spectrum inversion Doppler auto
		 Compression 	trace
		 Trace direction 	 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

Bac	kground

Sensitivity/PRI

Acoustic power

Frequency

Line density

Frame average

Gray scale map

Tint map

Dynamic range

Rejection

Gain

Flash suppression

SRI-HD

Accumulation

Visualization

Radiant*flow*[™]

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 (diver intensity projection Sectional planes (3 perpendicular to ea Omniview Volume contrast im Volume contrast im Tomographic ultrass Volume Analyses VOCAL: semi-auto segmentation too using touch screet 3D static only Threshold Volume above and below 	n modes) section planes ach other) naging – static naging – Omniview sound imaging D/manual ol (segmentation n) :: measure volume
Render mode	 Surface texture, surmin- and X-ray (average mix mode of two reserved to the mix mode of two reserved). HDlive[™] 	ge intensity projection),
SonoRenderlive		
Curved 3-point render start		
3D movie		
Scalpel: 3D cut tool		
Display format	 Quad: A-/B-/C-Plan Dual: A-Plane/3D Single: 3D or A- or B 	
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

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

3D movie

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

- PW
 - Coded harmonic 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

Color mode

• Virtual convex

SRI-HD

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

B/M/CrossXBeam-	• Gain
Mode	• Dynar
	• Frame

- TGC mic range • Acou
 - Acoustic output
- nerate control Sweep speed for
- CrossXBeam angle M-Mode

General system parameters (cont.) Measurements/calculations

Controls available while "live" (cont.)		
PW-Mode	 Gain Acoustic output PRF Wall filter Sample volume gate: length, depth 	 Dynamic range Transmission frequency Spectral averaging Velocity scale
Color Flow Mode	 CFM gain Acoustic output Wall echo filter Frame rate control CFM frame averaging Frequency/velocity 	 CFM velocity range Packet size CFM spatial filter CFM line resolution 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 optimiza TGC Colorized B and M Frame average (loo Dynamic range 	
Anatomical M-Mode		
Magnification zoom		
Pan zoom		
Baseline shift		
Sweep speed		
PW mode	 Gray map Baseline shift Invert spectral wave form Colorized spectrum Quick angle correct 	CompressionDisplay formatAngle correct
Color flow	Overall gain (loops Color man	and stills)

	Quick angle correct Auto angle correct
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 c	on CINE loop

4D	• Gray map, colorize
	• Post gain
	 Change display – single, dual, quad
	sectional or rendered

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.)	OB measurements	/calculations
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)	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)
Abdominal measurements/calculations Shear Elasto velocity Shear Elasto stiffness Attenuation rate Attenuation coefficient Summary reports		 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 trend	ling
Small Parts measurements/calculations	Growth percentiles	
Breast Lesion	Multi-gestational ca	lculations (4)
Thyroid	Fetal qualitative des	cription (anatomical survey)
Parathyroid	Fetal environmental	description (biophysical profile)
Lymph Node	Programmable OB ta	ables
Nodule	Over 20 selectable C	DB calculations
Isthmus AP	Expanded workshee	ts
Shear Elasto velocity		
Shear Elasto stiffness	Estimated fetal we	ight (EFW) by:
Summary reports	AC, BPD	
	AC, BPD, FL	
	AC, BPD, FL, HC	

AC, FL

AC, HC

AC, FL, 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

SonolT 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[™] 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:

- U 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 measurements	
Aorta	 Aortic Root Diameter (Ao Root Diam) Aortic Arch Diameter (Ao Arch Diam) Ascending Aortic Diameter (Ao Asc Diam) Descending Aortic Diameter (Ao Desc Diam) Aorta Isthmus (Ao Isthmus) Aorta (Ao st junct)
Aortic valve	 Aortic Valve Cusp Separation (AV Cusp) Aortic Valve Area Planimetry (AVA Planimetry) Trans AVA
Left atrium	 Left Atrium Diameter (LA Diam) LA Length (LA Major) LA Width (LA Minor) Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao ratio) Left Atrium Area (LAA(d), LAA(s)) 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)

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 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 Posterior Wall Fractional Shortening (LVPWd, LVPWs) Ejection Fraction, Teichholz/Cube (LVIDd, LVIDs) Left Ventricle Stroke Index, Teichholz/ Cube (LVIDd, LVIDs and Body Surface Area) Left Ventricle Stroke Index, Single Plane, Two Chamber, Method of Disk (LVI Dd, LVIDs, LVSd, LVSs) Left Ventricle Stroke Index, Single Plane, Two Chamber, Method of Disk (LVI Dd, LVIDs, LVSd, LVSs) 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, Single Plane, Four 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 Posterior Wall Thickness (LVPW)

B-Mode measurements (cont.) **M-Mode measurements** Mitral valve Mitral Valve Annulus Diameter (MV Ann Aorta Diam) E-Point-to-Septum Separation (EPSS) • Mitral Valve Area Planimetry (MVA Planimetry) Pulmonic valve • Pulmonic Valve Area (PV Planimetry) Pulmonic Valve Annulus Diameter (PV Annulus Diam) • Pulmonic Diameter (Pulmonic Diam) **Right atrium** • Right Atrium Diameter, Length (RAD Ma) Right Atrium Diameter, Width (RAD Mi) • Right Atrium Area (RAA) • Right Atrium Volume, Single Plane, Method of Disk (RAAd) • Right Atrium Volume, Systolic, Single Plane, Method of Disk (RAAs) **Right ventricle** • Right Ventricle Outflow Tract Area (RVOT Planimetry) Left Pulmonary Artery Area (LPA Area) • Right Pulmonary Artery Area (RPA Area) Right Ventricle Internal Diameter (RVIDd, RVIDs) • Right Ventricle Diameter, Length (RVD Ma) • Right Ventricle Diameter, Width (RVD Mi) • Right Ventricle Wall Thickness (RVAWd, RVAWs) • Right Ventricle Outflow Tract Diameter (RVOT Diam) • Left Pulmonary Artery (LPA) Main Pulmonary Artery (MPA) • Right Pulmonary Artery (RPA) System inferior • Systemic Vein Diameter (Systemic Diam) Patent Ductus Arterosis Diameter vena cava (PDA Diam) • Pericard Effusion (PEs) • Patent Foramen Ovale Diameter (PFO Diam) Ventricular Septal Defect Diameter (VSD Diam) • Interventricular Septum (IVS) Fractional Shortening (IVSd, IVSs) Tricuspid valve Tricuspid Valve Area (TV Panimetry) Tricuspid Valve Annulus Diameter

(TV Annulus Diam)

Aorta	 Aortic Root Diameter (Ao Root Diam) Aortic Valve Aortic Valve Diameter (AV Diam) Aortic Valve Cusp separation (AV Cusp) Aortic Valve Ejection Time (LVET)
Left atrium	 Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio) Left Atrium Diameter (LA Diam)
Left ventricle	 Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds) Left Ventricle Internal Diameter (LVIDd, LVI Ds) Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs) Left Ventricle Ejection Time (LVET) Left Ventricle Pre-Ejection Period (LVPEP) Interventricular Septum (IVS) Left Ventricle Internal Diameter (LVI D) Left Ventricle Posterior Wall Thickness (LVPW)
Mitral valve	 E-Point-to-Septum Separation (EPSS) Mitral Valve Leaflet Separation (D-E Excursion) Mitral Valve Anterior Leaflet Excursion (D-E Excursion) Mitral Valve D-E Slope (D-E Slope) Mitral Valve E-F Slope (E-F Slope) Mitral Annular Plane Systolic Excursion (MAPSE)
Pulmonic valve	• QRS Complex to End of Envelope (Q-PV close)
Right ventricle	 Right Ventricle Internal Diameter (RVIDd, RVIDs) Right Ventricle Wall Thickness (RVAWd, RVAWs) Right Ventricle Outflow Tract Diameter (RVOT Diam) Right Ventricle Ejection Time (RVET) Right Ventricle Pre-Ejection Period (RVPEP)
System	• Pericard Effusion (PE (d))
Tricuspid valve	 QRS Complex to End of Envelope (Q-TV close) Tricuspid Annular Plane Systolic Excursion (TAPSE)

Doppler Mode measurements

Doppler Mode m	neasurements	Doppler Mode measurements (cont.)			
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 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) Aortic Valve Peak Velocity at Point E (AV Vmax) Aortic Valve Insufficiency Pressure Half Time (AR PHT) Aortic Valve Flow Acceleration (Coarc Pre-Duct) Aortic Valve Flow Acceleration (AV Trace) Aortic Valve Pressure Half Time (AV Trace) Aortic Valve Acceleration Time (AV Acc Time) Aortic Valve Acceleration Time (AV ET) Aortic Valve Acceleration to Ejection Time Ratio (AV Acc Time, AVET) Aortic Valve Area(VTI): AVA (Vmax) 	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 Regurgitant Mean Velocity (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 Valve Peak Pressure Gradient (MV Trace) Mitral Regurgitant Peak Pressure Gradient (MV Trace) Mitral Regurgitant Peak Pressure Gradient (MV Trace) Mitral Valve Peak Pressure Gradient (MV Vmax) Mitral Valve Peak Velocity (MV Vmax) Mitral Valve Peak Velocity (MV Vmax) Mitral Valve Peak Pressure Gradient (MV Vmax) Mitral Valve Peak Peak Pressure Gradient (MV Vmax) Mitral Valve Peak Velocity Peak A (MV A Velocity) Mitral Valve Peak Pressure Half Time (MV PHT) Mitral Valve Pressure Half Time (MV PHT) 		
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 Flow Acceleration (MV AccT) Mitral Valve E-Peak to A-Peak Ratio (A-C and D-E) (MV E/ARatio) Mitral Valve Acceleration Time (MV Dec 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 		
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) 	Pulmonic valve	 Planimetry, MVTrace) 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 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 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 m	easurements (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 Regurgitant Mean Pressure Gradient (TV Trace) Tricuspid Regurgitant Mean Velocity (TR Trace) Tricuspid Regurgitant Velocity Time Integral (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: Area: Regurgitant Volume Flow (AR Trace) Proximal Isovelocity Surface Area: Aliased Velocity (AR Vmax)
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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: Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax)
Combination Mo	de 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) 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, 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

Probe Guide



Featuring XDclear[™] Technology

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

Description	Applications	FOV	Bandwidth	Biopsy Guide	Volume Navigation
CONVEX					
XDCIEar broad-spectrum	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
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
XDclear broad-spectrum convex probe	Neonatal, Pediatrics, Vascular, Small Parts	95°	2 – 11 MHz	No	Yes
micro-convey	Obstetrics, Gynecology, Urology	180°	3 - 10 MHz	Single-angle disposable or single-angle reusable	Yes
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					
	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
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
Broad-spectrum linear probe	Musculoskeletal	26 mm	6 – 20 MHz	No	No
	Small Parts, Vascular, Intraoperative, Neonatal	25 mm	4 - 15 MHz	No	Yes
Broad-spectrum linear matrix array probe	Vascular, Small Parts, Neonatal, Pediatrics	50 mm	4 - 16 MHz	Multi-angle disposable with a reusable bracket	Yes

	Description	Applications	FOV	Bandwidth	Biopsy Guide	Volume Navigation
	SECTOR					
M5Sc-D	XDclear broad-spectrum sector probe	Cardiac, Transcranial, Abdominal	120°	1 – 5 MHz	Multi-angle disposable with a reusable bracket	Yes
6S-D	Broad-spectrum sector probe	Cardiac	115°	2 – 8 MHz	No	No
	REAL-TIME 4D					
RAB6-D	Broad-spectrum real-time 4D probe	Abdominal, Obstetrics, Gynecology, Pediatrics	80°	2 – 8 MHz	Single-angle disposable with a reusable bracket	No
RIC5-9-D	Broad-spectrum real-time 4D micro-convex probe	Obstetrics, Gynecology, Urology	180°	3 – 10 MHz	Single-angle reusable	No
	SPECIALTY					
P2D	CW split crystal pencil probe	Cardiac, Vascular	N/A	1 - 3 MHz	No	No
P6D	CW split crystal pencil probe	Cardiac, Vascular, Transcranial	N/A	5 – 7 MHz	No	No
O 6Tc-RS	TEE probe	Cardiac	90°	2 – 8 MHz	No	No
BE9CS-D	Wideband bi-plane micro-convex probe	Urology, Endocavity	133°	3 – 12 MHz	Single-angle disposable bracket or reusable bracket	No



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.

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)	<u>Page 18</u>	Education offering (EM only)
)	<u>Page 19</u>	Veterinary Use
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)	<u>Page 21</u>	Appendix A – SonoDefense Information
,	<u>Page 22</u>	Appendix B – Cabinet Compatibility

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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

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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

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<u>HW Options:</u>

- 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

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- Virtual Tracker
- OmniTrax (Active Tracker) Kit

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- V Nav brackets

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Printers:

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

Accessories:

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

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- Probe Label Kit

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Product Tree LOG	GIQ Fortis		EU offering only
Item Number	Description	Description / Comments	EM / FSA offering only
	Base System		
H43302LA	LOGIQ Fortis Console		
Standard Feat	ures (see datasheet for more information)	Õ	
23.8" Wide-screen	HDU monitor		
12,1" High-resoluti	on Touch Display		
Power Cord 220V f	or EU		
4 Active Probe Port	ts, 1 Parking port		
Gel-Warmer			
Mid Cabinet		2 1 mar - 2 rea - 2 re	
LOGIQView		NOM Automation Nom -	
Privacy & Security	Package – SonoDefense Solution	Aller - Similaren Mile a 1945 a	
<u>System</u> <u>Overview</u> <u>System</u>	Power Cords. Power cords & KeyboardsManuals & DocumentationXDclear ProbesProbes	TEE DrobeBiopsy GuidesClinical Pckg.Software OptionsSaaSHardware OptionsV Nav OptionsPeripherals & AccessoriesEducationVeterinary UseRevis Hist	

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	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

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tem Number	Description	Item Number	Description	EM / FSA offering	
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	LOGIQ Fortis Czech DOCs Kit	H43322LC	LOGIQ Fortis Euro Port DOCs Kit		
H43312LF	LOGIQ Fortis Danish DOCs Kit	H43322LD	LOGIQ Fortis Polish DOCs Kit		
H43312LG	LOGIQ Fortis German DOCs Kit	H43322LE	LOGIQ Fortis Romanian DOCs Kit		
H43312LH	LOGIQ Fortis Dutch DOCs Kit	H43322LF	LOGIQ Fortis Serbian DOCs Kit		
H43312LJ	LOGIQ Fortis English DOCs Kit	H43322LG	LOGIQ Fortis Swedish DOCs Kit		
H43312LK	LOGIQ Fortis Estonian DOCs Kit	H43322LH	LOGIQ Fortis Slovakian DOCs Kit		
H43312LL	LOGIQ Fortis French DOCs Kit	H43322LJ	LOGIQ Fortis Slovenian DOCs Kit		
H43312LM	LOGIQ Fortis Finnish DOCs Kit	H43322LK	LOGIQ Fortis Spanish DOCs Kit		
H43312LN	LOGIQ Fortis Greek DOCs Kit	H43322LL	LOGIQ Fortis Turkish DOCs Kit		
H43312LP	LOGIQ Fortis Hungarian DOCs Kit	H43322LM	LOGIQ Fortis Russian DOCs Kit		
H43312LS	LOGIQ Fortis Ukrainian DOCs Kit	H43322LN	LOGIQ Fortis R3 Advanced Reference Manual - English		
H43322LS	LOGIQ Fortis R3 Kazakhstan Docs Kit	H43322LT	LOGIQ Fortis R3 Advanced Reference Manual - French		

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Note: Electronic Instructions for Use (eIFU) containing a leaflet with instructions translated into all languages and a USB Stick with all User Documentation are included with every system. Above DOCs Kits are only needed if a customer requires a printed copy of the documents listed below (electronic versions of those are included in the eIFU).

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Product Tree LO	OGIQ 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 v wav 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	
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	2D Curved Array Probes				
H46422LM	C2-7-D Probe				
H46422LN	C2-7VN-D Probe*	*Note: (VN' Probes also work on			
	2D Linear Array Probes	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 1143342Lb Realtime 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			

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	TEE Adult Probe			
H45551ZE	6Tc-RS Multi-Plane TEE Probe	CW Doppler requires H43342LA CW	Doppler Kit	
H46352LK	TEE RS-DLP Adapter	MANDATORY!		
	TEE Probe Accessories			
H45551NM	TEE Storage Rack	Strongly recommended to order wit For storage of Adult and Pediatric Te next use.	h the TEE probe EE probes, wall mounted unit. Store (and dry) disinfected probes, ready for the	
H45521CK	TEE Scan-head protection cover	ADULT TEE SCANHEAD PROTECTION	I COVER	
H45511EE	TEE Clip-on Bite Guard Adult	TEE clip-on bite guard for adults, key	yhole type	
H45521CB	TEE Clip-on Bite Guard Adult OR	TEE clip-on bite guard for adults, U-f	orm type - Operating Room use	
H45521JH	Conventional Bite Guard Adult	TEE clip-on bite guard for adults, U-1	orm type	
H45531HS	Bite Hole Indicator	Bite Hole Indicator for TEE Probes; T	ype: KZ200800	
		TEE Probe user manuals		
H45531RA	TEE Probes User Manual - English German French Chin	ese H45541PP	TEE Probes User Manual - Czech	Bite Hole Indicator
H45531RD	TEE Probes User Manual - Italian	H45541PQ	TEE Probes User Manual - Latvian	
H45531RE	TEE Probes User Manual - Spanish	H45541PR	TEE Probes User Manual - Lithuanian	
H45531RJ	TEE Probes User Manual - Swedish	H45541PS	TEE Probes User Manual - Turkish	
H45531RK	TEE Probes User Manual - Norwegian	H45541PT	TEE Probes User Manual - Estonian	
H45531RL	TEE Probes User Manual - Danish	H45551ZQ	TEE Probes User Manual - Serbian	
H45531RM	TEE Probes User Manual - Polish	H45551ZR	TEE Probes User Manual - Bulgarian	
H45531RN	TEE Probes User Manual - Finnish	H45561RH	TEE probes User manual - Croatian	
H45531RP	TEE Probes User Manual - Greek	H45581AN	TEE Probes User Manual - Portuguese	
H45531RQ	TEE Probes User Manual - Russian	H45581PL	TEE Probes User Manual - Ukrainian	
H45531RR	TEE Probes User Manual - Dutch	H45581PT	TEE Probes User Manual - Slovenian	
H45541PL	TEE Probes User Manual - Hungarian	H45601HR	TEE Probes User Manual - Kazakh	
H45541PM	TEE Probes User Manual - Slovak			and the second second second
H45541PN	TEE Probes User Manual - Romanian			-
		202		
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	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		2
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.	
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	

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Product Tree LO	GIQ Fortis		EU offering only
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	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, Elastography, Elasto QSA, Breast Productivity, Measure Ass. Breast, B Steer+, Compare Ass., Scan Ass., LOGIQ Apps	
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	
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	Software Options 1/2		
	Connectivity		
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	
	Imaging		
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	
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	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	

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	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*	 One Year Subscription for 100 breast exams on Scanner Only Must order a minimum of 6 per customer 12 months plus 2 additional months at no charge (first year only) 				
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) 				

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

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	Hardware Options	
H43342LA	CW Doppler Option kit	- includes SW Option Key in OAC
H43342LJ	Pencil CW Installation kit	 includes SW Option Key in OAC Requires H43342LA CW Doppler Option
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"
H43342LG	Wireless Option kit	- includes SW Option Key in OAC
H43342LH	S-Video Option Kit	
	ECG Option	
H43342LC	ECG Installation kit	 Requires H43342LP 5inch bay installation kit includes SW Option Key in OAC Includes: Auto Ejection Fraction Option Tissue Velocity Imaging Option
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	
H43342LP	5inch bay Installation kit	Mandatory to be ordered with H43342LC and/or H43342LF (one kit)
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	Volume Navigation		
	V Nav Hardware Options		Server State
H43372LK	Volume Navigation Kit	 includes SW Option Key in OAC Requires H43342LP 5inch bay installation kit 	
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		
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)	Siveo
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 Dverview System	Power Cords. Power cords & KeyboardsManuals & DocumentationXDclear ProbesProbes	TEE brobeBiopsy GuidesClinical Pckg.Software OptionsSaaSHardware OptionsV Nav OptionsPeripherals & AccessoriesEducation	on <u>Veterinary</u> <u>Revision</u> <u>Appendix A –</u> <u>Use</u> <u>History</u> <u>Sonodefense</u>

		Port Kal	
Product Tree LOC	IQ Fortis		EU offering only
Item Number	Description	Description / Comments	EM / FSA offering only
	Peripherals		
H43342LK	Onboard Printer UP-D898DC	Onboard Installation	
H4911JT	Sony UP-D25MD Color Printer	A6 Digital Color Printer for <u>off-board</u> 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		<u>↑</u>
H46732LF	USB FOOTSWITCH 3 Button		
H43352LC	Small Probe Holder		
H43352LD	VERTICAL TV PROBE Holder	Position on L/H side of the OPIO	LOGIQ
H43352LE	TVTR Probe Holder		
H44412LA	PROBE CABLE HANGER		press /
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	1
H43272LJ	Ethernet protection cable		
	UPS		0
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	0 0
H48512AF	AC Power Cord UK/Ireland	For use with H4921UP	Ethernet Protection cable
H48512AJ	AC Power Cord Switzerland	For use with H4921UP	
H48532AY	Power Cord for Denmark, Hospital Grade C13 RED	For use with H4921UP	

E

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

SaaS

TEE probe

Probes

Biopsy

Guides

Power Cords. Power cords & Keyboards

Manuals &

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Education

Peripherals

<u>&</u>

Accessories



GE Healthcare

LEAD LOGIQ Expert Academy Days

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 LOG	GIQ Fortis		EU offering only
Item Number	Description	Description / Comments	EM / FSA offering only
	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	
	P1 = Single Image P2= Prospective cine		

Caution:

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.

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"



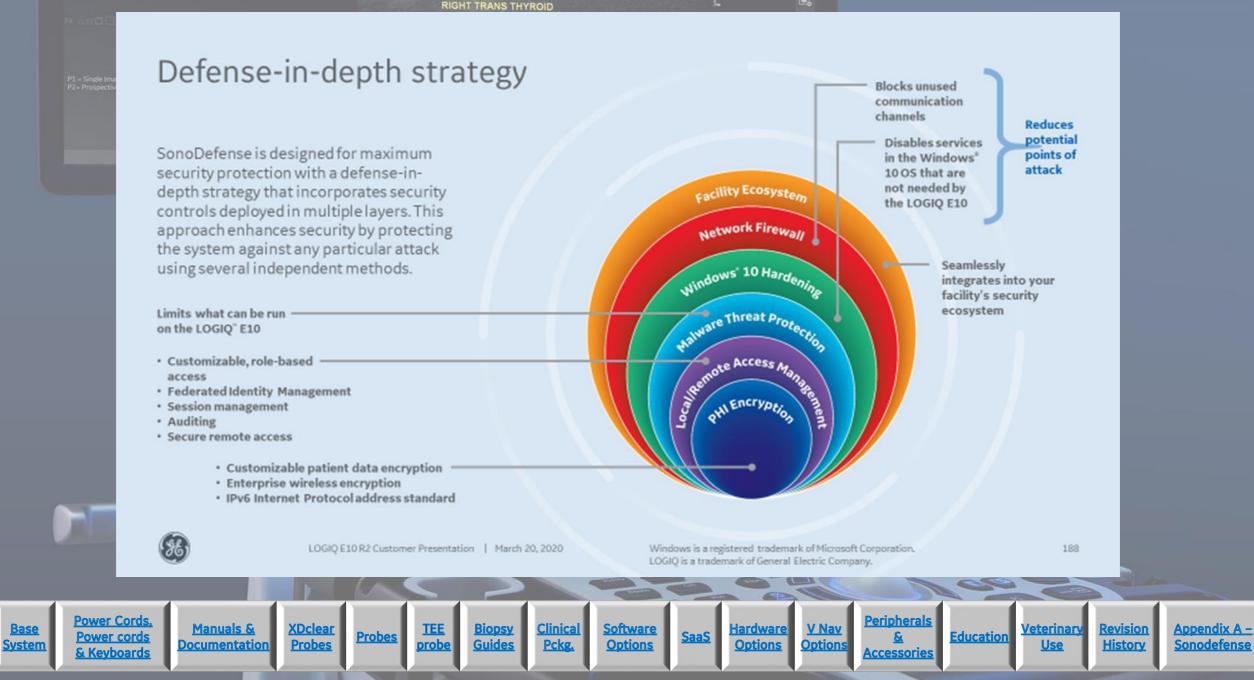
LOGIQ Fortis Product Tree Revision History

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	orrected 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 <u>not</u> an option.



System

Overview



Power Cords.

Power cords

& Keyboards

System

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RIGHT TRANS THYROID

Clinical

Pckg.

<u>Software</u>

Options

SaaS

Cabinet							Note			
Туре	Cabinet?	A	B-Upper	B-Lower	C-Upper	C-Lower	D	E	F	NOLE
	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	-		-	-		
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			

XDclear

Probes

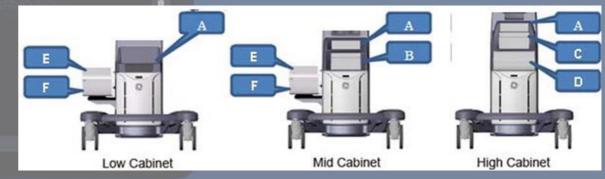
TEE

probe

Probes

Biopsy

Guides



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

GE Healthcare

Vscan Air[™] 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[™] or iOS[®] 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)ⁱ

Protective carrying case

Hardcopy Quick Start Guide

Electronic Instruction Use Guide

Wireless charger pad including micro USB cable

Country-specific AC adapterⁱⁱ

Available Accessories

Hardcopy user manual in different languages

Additional protective carrying case

Additional wireless charger pad

International AC adaptersⁱⁱ

Supported Mobile Platformsⁱⁱⁱ

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 solutions^{iv}

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 $^{\rm v}$

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 ^{vi}	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance
IEC 60601-1-2 ^{iv}	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 ^{vii}	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

¹ 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.

ⁱⁱ 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.

^{III} 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

- ^v 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.



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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	ΑΝΑΤΟΜΥ	EVALUATION
Abdominal ultrasound (Adult/ Pediatrics)	 Gall bladder, biliary tree, common bile duct Liver Pancreas Spleen Bowel including Appendix, small bowel loops Abdominal aorta Kidneys 	 Gall stones Gall bladder inflammation (wall thickening, surrounding fluid) Biliary obstruction (duct dilatation) Hepatomegaly Fatty liver Splenomegaly Intestinal obstruction Appendicitis Peritoneal fluid Mass/cyst / Abscess Abdominal aortic aneurysm Kidney stones
Urology (Adult/ Pediatrics)	 Kidneys Ureter Urinary Bladder Uretero-vesicular junction Prostate 	 Kidney, ureteral, bladder stones Kidney length Hydronephrosis Bladder dysfunction Pre-post Bladder volume Bladder inflammation (wall and mucosal changes, calcifications) Prostate size and volume Mass/cyst Ureteral jets with color
OB-Gyn	 Uterus and endometrium Ovaries Cervix Pouch of Douglas (POD) Gestational Sac (GS) Placenta Amniotic fluid Fetus(es) 	 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



CLINICAL APPLICATION	ΑΝΑΤΟΜΥ	EVALUATION
Lung/Thoracic (Adult/ Pediatrics)	 A-lines, B-lines, E-lines Pleura Lung tissue Lung sliding Lung point 	 Pneumothorax and hemothorax Pleural Effusion Lung consolidation Pneumonia/ pneumonitis Pulmonary fibrosis Pulmonary interstitial and inflammatory disorders (Ex. ILD, COPD) Acute respiratory distress syndrome
Cardiac and hemodynamic assessment (Adult/ Pediatrics*)	 Heart (atria, ventricles, valves) including pericardium Subcostal view Inter-atrial and interventricular septum Pulmonary arteries/ veins IVC 	 Pericardial fluid LV and RV size and function Valvular regurgitations/ stenosis Volume status and responsiveness IVC size Respiratory variation
Musculoskeletal (Conventional) (Adult/ Pediatrics)	 Hip/knee/ Shoulder joints Femur Humerus/elbow Tibia/fibula Radius/ulna Muscles Ligaments Tendons Nerves 	 Fluid Cyst/mass Long bone fractures Ligament and joint integrity Tendon injuries (tendonitis, rupture/tear) Muscle tears Peripheral nerve blocks
Procedure guidance (Adult/ Pediatrics)	 Heart Lung Uterus Abdomen Thorax Bladder Nerve plexus Hip/knee /Shoulder joints 	 Fluid detection: Pericardial, Pleural, Peritoneal, Amniotic, Joints Procedures: Thoracentesis, Paracentesis Pericardiocentesis, Amniocentesis, Arthrocentesis Foreign body visualization/ localizations Bladder catheterization Nerve blocks Biopsy Placement and monitor position of tubes and catheters
Protocols	 Heart IVC Lungs Abdomen 	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	ΑΝΑΤΟΜΥ	EVALUATION
Peripheral Vascular (Adult/ Pediatrics)	 Arteries including Carotid, vertebral, subclavian, axillary, brachial, iliac, saphenous, popliteal, femoral Veins including Jugular, subclavian, cephalic, basilic, saphenous, femoral, popliteal, tibial 	 Deep vein thrombosis Atherosclerosis- Intima media thickness, plaques, vessel occlusion/ stenosis Subclavian Steel syndromes
Lung/ Thoracic (Adult/ Pediatrics)	 A, B, E lines Pleura Lung tissue Lung sliding Lung point 	 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)	 Testes Scrotum Thyroid Breast Bowel Abdominal wall Skin Subcutaneous tissue Fascia Lymph nodes 	 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)	 Tendons Muscles Ligaments Nerves Long bones (ex. Humerus, Radious, Ulna, Femur, Tibia, Fibula) Joints (ex. Ankel, Shoulder, Knee, Elbow, Wrist) Joint space/ bursae 	 Tendon injuries (tendonitis, rupture/ tear) Muscle tears Long bone fractures Carpal Tunnel syndrome Fluid collection in joint space, muscles, bursae Joint and ligaments integrity Cyst/ mass Hip joint evaluation for neonates and infants
Nerves (Adult/ Pediatrics)	 Peripheral nerves including examples as Interscalene, supraclavicular, infraclavicular, axillary plexus, Median N, Radial N, Ulnar, Femoral, Popliteal, Tibial, Peroneal, Saphenous N 	• Peripheral nerve blocks



CLINICAL APPLICATION	ΑΝΑΤΟΜΥ	EVALUATION
Neck and airway (Adult/ Pediatrics)	 Cervical Lymph nodes Trachea Epiglottis, cricoid cartilage, cricothyroid membrane Esophagus Vocal folds 	 Neck massess Airway assessment Vocal cord dysfunction
Procedural guidance (Adult/ Pediatrics)	 Thorax Veins (including Jugular/ Subclavian/ Axillary/ Femoral / Brachial/ Basilic/ Cephalic) Arteries (including femoral, radial, brachial, axillary, dorsalis pedis) Peripheral nerves Joints Vertebral spaces Skin and subcutaneous tissue Trachea and surrounding structures 	 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**	 Optic nerve sheath Retina Globe Lens 	 Retinal detachment Vitreous hemorrhage Intra-ocular foreign body visualization Globe rupture Optic Nerve sheath diameter Lens dislocation
Cephalic (Neonatal)	 Fontanelle Superficial and mid-superficial cranial structures 	 Gyral-sulcal anatomy Superior sagittal sinus thrombosis Cerebral edema Extra-axial fluid collections
Protocols	• Lungs	• eFAST • BLUE

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

**Ophthalmic not available in Japan and China

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