



# LOGIQ E10 R4.x

## Product Specification Sheet

Last updated on: Thursday, June 27, 2024

1	<b>General Specifications</b>	
2	<b>Dimensions and Weight</b> (Dimensions given with floating keyboard stowed and display tilted for transport)	
3	Height	1300 mm (51 in)
4	Width	585 mm (23 in)
5	Depth	901 mm (35.5 in)
6	Weight	119 kg (262 lbs)
7	<b>Electrical Power</b>	
8	Voltage: 100 – 240 Vac	
9	Frequency: 50/60 Hz	
10	Power consumption maximum of 0.9 kVA with peripherals	
11	<b>Console Design</b>	
12	4 active physical probe ports	
13	2 inactive probe storage ports	
14	Wireless probe connection, capable of connecting Vscan Air™ wireless and linear probes	
15	Integrated SSD (1 TB)	
16	Integrated DVD-R Multi Drive	
17	On-board storage of thermal printer	
18	Integrated speakers with sub-woofer for premium sound	
19	Integrated locking mechanism that provides rolling lock and caster swivel lock	
20	Integrated cable management	
21	Front and rear handles	
22	Easily removable air filters	
23	Windows 10 Enterprise LTSC 2019 (64-bit)	
24	<b>User Interface</b>	
25	<b>Operator Keyboard</b>	
26	Floating keyboard adjustable in three dimensions	<ul style="list-style-type: none"> <li>• Height</li> <li>• Rotation</li> <li>• Extension</li> </ul>
27	Full-sized, backlit alphanumeric keyboard	
28	Ergonomic hard key layout	
29	Interactive back-lighting	
30	Integrated recording keys for remote control of up to 4 peripheral devices or DICOM® devices	
31	Integrated gel warmer	
32	<b>Touch Screen</b>	
33	12.1" High-resolution, color, touch, display screen	
34	Interactive dynamic software menu	
35	Brightness adjustment	
36	User-configurable layout	
37	<b>Monitor</b>	
38	23.8" Wide screen high-resolution HDU display	
39	Display translation (independent of console)	
40	350 mm, (13.7 in) horizontal (both directions)	
41	150 mm, (5.9 in) vertical	
42	90° swivel (both directions)	
43	Fold-down and lock mechanism for transportation	
44	Resolution: 1920 X 1080	
45	Anti-glare	

46	Viewing angle 89/89/89/89°
47	Contrast Ratio: >25,000:1
48	<b>System Overview</b>
49	<b>Applications</b>
50	Abdominal
51	Obstetrical
52	Gynecological
53	Breast
54	Small Parts
55	Peripheral Vascular
56	Transcranial (adult and neonatal)
57	Pediatric and Neonatal
58	Musculoskeletal (general and superficial)
59	Urological
60	Cardiac (adult and pediatric)
61	Interventional
62	Pleural
63	<b>Operating Modes</b>
64	B-Mode
65	M-Mode
66	Color Flow Mode (CFM)
67	Microvascular Imaging (MVI)
68	Power Doppler Imaging (PDI)
69	B-Flow
70	Extended Field of View (LOGIQView)
71	PW Doppler
72	CW Doppler (Option)
73	Volume Modes (3D/4D) (Option)
74	Anatomical M-Mode
75	Contrast Imaging (Option)
76	Strain elastography
77	Shear wave elastography (Option)
78	UGAP (Option) - Ultrasound Guided Attenuation Parameter Imaging
79	<b>Scanning Methods</b>
80	Electronic sector
81	Electronic convex
82	Electronic linear
83	Mechanical volume sweep
84	<b>Probe Types</b>
85	Sector/Phased array
86	Curved Linear array
87	Microcurved linear array
88	Linear array
89	Matrix array (Linear)
90	Volume probes (4D)
91	Split crystal
92	TEE probe
93	<b>System Standard Features</b>
94	Advanced user interface with high-resolution 12.1" display touch panel
95	Automatic optimization
96	CrossXBeam™ compounding
97	Speckle Reduction Imaging (SRI-HD, Advanced SRI Type 1)
98	Fine angle steer
99	Coded harmonic imaging
100	Virtual convex
101	Patient information database
102	Image archive on hard drive
103	Advanced 3D
104	Raw data analysis
105	Real-time automatic Doppler calculations
106	OB calculations

107	Fetal trending	
108	Multi gestational calculations	
109	Hip dysplasia calculations	
110	Gynecological calculations	
111	Vascular calculations	
112	Urological calculations	
113	Renal calculations	
114	Cardiac calculations	
115	InSite™ capability	
116	On-board electronic documentation	
117	Auto Doppler Assist	
118	Privacy and security, including user and rights management	
119	DICOM	
120	B-Flow	
121	LOGIQView	
122	Compare Assistant	
123	Scan Assistant	
124	Auto IMT	
125	Breast productivity package	
126	Thyroid productivity package	
127	OB measure assistant	
128	Quantificative Flow Analysis available with Color Flow/PDI	
129	Breast Measure Assistant	
130	B Steer+	
131	External USB printer connection	
132	Network printer support	
133	HDMI output (available for compatible devices)	
134	App Launchpad	
135	<b>System Options</b>	
136	Advanced privacy and security (vulnerability scan)	
137	Power assistant and scan on battery	
138	Storage bins	
139	Shear wave Elastography	
140	Volume Navigation	
141	UGAP	
142	Hepatic Assistant	
143	Coded Contrast Imaging	
144	Stress echo	
145	Cardiac Strain (Automatic Function Imaging)	
146	On-board reporting	
147	Wireless LAN	
148	CW	
149	DVR	
150	Breast Assistant, Powered by Koios DS™	
151	Thyroid Assistant, Powered by Koios DS™	
152	SonoNT SonoIT	
153	Advanced SRI Type 2	
154	Micro B-flow	
155	RF Data Capture	
156	Auto Preset Assistant	
157	Auto Abdominal Color Assistant	
158	Auto Renal Measure Assistant	
159	Contrast LI-RADS	
160	Raw Data Streaming	
161	<b>Peripheral Options</b>	
162	Integrated Option for Digital Color thermal Printer	
163	Integrated Option for DVD Drive	
164	Digital A6 color thermal printer	
165	Foot switch, with programmable functionality	
166	CRF-200U card reader support (Japan Only)	
167	Console protective cover	
168	LOGIQ smart device apps	<ul style="list-style-type: none"> <li>• Photo Assistant</li> <li>• Remote Control</li> </ul>

169	Vscan Air™ On-System Charger	
170	<b>Display Modes</b>	
171	Live and stored display format	<ul style="list-style-type: none"> <li>• Full size and split screen – both w/ thumbnails. For still and CINE</li> </ul>
172	Review image format	<ul style="list-style-type: none"> <li>• 4x4, and thumbnails. For still and CINE</li> </ul>
173	Time line display	<ul style="list-style-type: none"> <li>• Independent Dual B or CrossXBeam/PW Display</li> <li>• CW</li> <li>• Display formats top/bottom selectable format</li> <li>• Side/side selectable format</li> </ul>
174	Virtual convex	
175	<b>Simultaneous capability</b>	
176	B or CrossXBeam/PW	
177	B or CrossXBeam/CW (Option)	
178	B or CrossXBeam/CFM or PDI	
179	B/M	
180	B/CrossXBeam	
181	B-Flow/PW	
182	Real-time Triplex Mode - B or CrossXBeam + CFM or PDI/PW	
183	<b>Selectable alternating modes</b>	
184	B or CrossXBeam/PW	
185	B or CrossXBeam + CFM (PDI)/PW	
186	B/CW (Option)	
187	<b>Multi-image (split/quad screen)</b>	
188	Live and/or frozen	
189	B or CrossXBeam + B or CrossXBeam/CFM or PDI or B-Flow	
190	PW/M	
191	Independent Cine playback	
192	<b>Display Annotation</b>	
193	Patient name: first, last and middle	
194	Patient ID	
195	Alternate patient ID	
196	Age, sex and date of birth	
197	Hospital name	
198	Date format: three types selectable	<ul style="list-style-type: none"> <li>• MM/DD/YY</li> <li>• DD/MM/YY</li> <li>• YY/MM/DD</li> </ul>
199	Time format: 2 types selectable	<ul style="list-style-type: none"> <li>• 24 hours</li> <li>• 12 hours</li> </ul>
200	Gestational age from	<ul style="list-style-type: none"> <li>• LMP</li> <li>• GA</li> <li>• EDD</li> <li>• BBT</li> </ul>
201	Probe name	
202	Map names	
203	Probe orientation	
204	Depth scale marker	
205	Lateral scale marker	
206	Focal zone markers	
207	Image depth	
208	Zoom depth	
209	B-Mode	<ul style="list-style-type: none"> <li>• Gain</li> <li>• Dynamic range</li> <li>• Imaging frequency</li> <li>• Frame averaging</li> <li>• Gray map</li> <li>• SRI</li> </ul>
210	M-Mode	<ul style="list-style-type: none"> <li>• Gain</li> <li>• Dynamic range</li> <li>• Time scale</li> </ul>

211	Doppler Mode	<ul style="list-style-type: none"> <li>• Gain</li> <li>• Angle</li> <li>• Sample volume depth and width</li> <li>• Wall filter</li> <li>• Velocity and/or frequency scale</li> <li>• Spectrum inversion</li> <li>• Time scale</li> <li>• PRF</li> <li>• Doppler frequency</li> </ul>
212	Color Flow Doppler Mode	<ul style="list-style-type: none"> <li>• Line density</li> <li>• Frame averaging</li> <li>• Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging</li> <li>• Color velocity range and baseline</li> <li>• Color threshold marker</li> <li>• Color gain</li> <li>• PDI</li> <li>• Spectrum inversion</li> <li>• Doppler frequency</li> </ul>
213	Digital TGC with 8 independent controls	
214	TGC Curve	
215	Acoustic frame rate	
216	CINE gage, image number/frame number	
217	Body pattern: multiple human and animal types	
218	Application name	
219	Measurement results	
220	Operator message	
221	Displayed acoustic output	<ul style="list-style-type: none"> <li>• TIS: Thermal Index Soft Tissue</li> <li>• TIC: Thermal Index Cranial (Bone)</li> <li>• TIB: Thermal Index Bone</li> <li>• MI: Mechanical Index</li> </ul>
222	% of maximum power output	
223	Biopsy guide line and zone	
224	Heart rate	
225	<b>General System Parameters</b>	
226	<b>System Setup</b>	
227	Pre-programmable categories	
228	User programmable preset capability	
229	Factory default preset data	
230	Languages: English, French, German, Spanish, Italian, Brazilian, Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian	
231	OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO	
232	User defined annotations	
233	Body patterns	
234	Customized comment home position	
235	EZ Imaging: Simplified user interface for high volume workflow	
236	<b>Complete user manual available on board through Help (F1)</b>	
237	User manual and service manual are included in USB stick with each system. A printed manual is available upon request.	
238	<b>CINE Memory/Image Memory</b>	
239	1 GB of CINE memory	
240	Selectable CINE sequence for CINE review	
241	Prospective CINE mark	
242	Measurements/calculations and annotations on CINE playback	
243	Scrolling timeline memory	
244	Dual Image CINE display	
245	Quad Image CINE display	
246	CINE gauge and CINE image number display	
247	CINE review loop	
248	CINE review speed	
249	<b>Image Storage</b>	
250	On-board database of patient information from past exams	

251	Storage formats: DICOM	<ul style="list-style-type: none"> <li>• Compressed/uncompressed</li> <li>• Single/multi-frame</li> <li>• Enhanced (3D/4D)</li> <li>• With/without raw data</li> </ul>
252	Exportable DICOM viewer	
253	Export BMP, JPEG, JPEG 2000, PNG, AVI, MP4, WMV formats	
254	Storage devices:	<ul style="list-style-type: none"> <li>• USB memory stick: 64 MB to 64 GB (for exporting individual images/clips)</li> <li>• CD-R storage: 700 MB</li> <li>• DVD storage: -R (4.7 GB)</li> <li>• Hard drive image storage: ~730GB</li> </ul>
255	Compare previous exam images with current exam	
256	Reload of archived date sets	
257	<b>Connectivity</b>	
258	Ethernet network connection	
259	Wireless LAN 802.11ac/a/b/g/n (Option)	
260	DICOM 3.0	<ul style="list-style-type: none"> <li>• Verify</li> <li>• Print</li> <li>• Store</li> <li>• Modality worklist</li> <li>• Storage commitment</li> <li>• Modality performed procedure step (MPPS)</li> <li>• Media exchange</li> <li>• Off network/mobile storage queue</li> <li>• Query/retrieve</li> </ul>
261	Public SR template	
262	Structured Reporting – compatible with vascular and OB, cardiac and breast standard	
263	InSite capability	
264	Advanced privacy and security (Option)	
265	<b>Physiological input panel (Option)</b>	
266	Physiological input	<ul style="list-style-type: none"> <li>• ECG, 1 channel</li> <li>• PCG, 1 channel</li> <li>• AUX, 1 channel</li> <li>• Dual R-Trigger</li> <li>• Pre-settable ECG R delay time</li> <li>• Pre-settable ECG position</li> <li>• Adjustable ECG gain control</li> <li>• Pre-settable PCG position</li> <li>• Adjustable PCG gain control</li> <li>• Pre-settable AUX position</li> <li>• Adjustable AUX gain control</li> </ul>
267	Automatic heart rate display	
268	Auto Ejection Fraction	
269	<b>Report writer (Option)</b>	
270	On-board reporting package automates report writing	
271	Formats various exam results into a report suitable for printing or reviewing on a standard PC	
272	Exam results include patient info, exam info, measurements, calculations, images, and comments Standard templates provided	
273	Customizable templates	
274	<b>Scanning Parameters</b>	
275	cSound™ Imageformer: Infinite number of effective channels	
276	Frame rate: 9,675 Hz (fps) maximum	
277	Displayed imaging depth: 0 – 100 cm	
278	Minimum depth of field: 0 – 2 cm (zoom) (probe dependent)	
279	Maximum depth of field: 0 – 100 cm (probe dependent)	
280	Continuous dynamic receive focus	
281	Continuous dynamic receive aperture	
282	Adjustable dynamic range, infinite upper level	
283	Adjustable field of view (FOV)	
284	System Frequency Range: 0.7-24 MHz	
285	Image reverse: right/left	
286	Image rotation of 0°, 90°, 180°, 270°	
287	8 bits stored per color	

288	256 shades of gray	
289	256 color tones	
290	<b>Digital B-Mode</b>	
291	Adjustable	<ul style="list-style-type: none"> <li>• Acoustic power</li> <li>• Gain</li> <li>• Dynamic range</li> <li>• Frame averaging</li> <li>• Gray scale map</li> <li>• Frequency</li> <li>• Speed of sound (application dependent)</li> <li>• Framerate</li> <li>• Scanning size (FOV or Angle) <ul style="list-style-type: none"> <li>– Depending on the probe, see probe specifications</li> </ul> </li> <li>• CrossXBeam</li> <li>• B colorization</li> <li>• Rejection</li> <li>• Suppression</li> <li>• SRI</li> </ul>
291	Adaptive Contrast Enhancement (ACE)	Available in Abdomen, Cardiac, Thyroid and Obstetric cases
292	<b>Digital M-Mode</b>	
293	Adjustable	<ul style="list-style-type: none"> <li>• Acoustic power</li> <li>• Gain</li> <li>• Dynamic range</li> <li>• Gray scale map</li> <li>• Frequency</li> <li>• Sweep speed</li> <li>• M colorization</li> <li>• M display format</li> <li>• Rejection</li> </ul>
294	<b>Anatomical M-Mode</b>	
295	M-mode cursor adjustable at any plane	
296	Can be activated from a CINE loop from a live or stored image	
297	M & A capability	
298	Available with Color Flow Mode	
299	<b>Digital Spectral Doppler Mode</b>	
300	Adjustable	<ul style="list-style-type: none"> <li>• Acoustic power</li> <li>• Gain</li> <li>• Dynamic range</li> <li>• Gray scale map</li> <li>• Transmit frequency</li> <li>• Wall filter</li> <li>• PW colorization</li> <li>• Velocity scale range</li> <li>• Sweep speed</li> <li>• Sample volume length</li> <li>• Angle correction</li> <li>• Steered linear</li> <li>• Spectrum inversion</li> <li>• Trace method</li> <li>• Baseline shift</li> <li>• Doppler auto trace</li> <li>• Time resolution</li> <li>• Compression</li> <li>• Trace direction</li> <li>• Trace sensitivity</li> </ul>
301	<b>Digital Color Flow Mode</b>	

302	Adjustable	<ul style="list-style-type: none"> <li>• Acoustic power</li> <li>• Color maps, including velocity-variance maps</li> <li>• Gain</li> <li>• Velocity scale range</li> <li>• Wall filter</li> <li>• Packet size</li> <li>• Line density</li> <li>• Spatial filter</li> <li>• Steering angle</li> <li>• Baseline shift</li> <li>• Frame average</li> <li>• Threshold</li> <li>• Auto ROI placement and steering on linear</li> <li>• Accumulation mode</li> <li>• Flash suppression</li> <li>• Shortcuts</li> </ul>
303	<b>Digital Power Doppler Imaging</b>	
304	Adjustable	<ul style="list-style-type: none"> <li>• Acoustic power</li> <li>• Color maps, velocity-variance maps</li> <li>• Gain including</li> <li>• Velocity scale range</li> <li>• Wall filter</li> <li>• Packet size</li> <li>• Line density</li> <li>• Spatial filter</li> <li>• Steering angle</li> <li>• Frame average</li> <li>• Threshold</li> <li>• Accumulation mode</li> <li>• Flash suppression</li> <li>• Shortcuts</li> </ul>
305	<b>Continuous Wave Doppler (Option)</b>	
306	Available on M5Sc-D, 6S-D, 6Tc-RS, P2D, P6D and P8D probes	
307	Steerable CW mode included	
308	Adjustable	<ul style="list-style-type: none"> <li>• Acoustic power</li> <li>• Gain</li> <li>• Dynamic range</li> <li>• Gray scale map</li> <li>• Transmit frequency</li> <li>• Wall filter</li> <li>• CW colorization</li> <li>• Velocity scale range</li> <li>• Sweep speed</li> <li>• Angle correction</li> <li>• Spectrum inversion</li> <li>• Trace method</li> <li>• Baseline shift</li> <li>• Doppler auto trace</li> <li>• Compression</li> <li>• Trace direction</li> <li>• Trace sensitivity</li> </ul>
309	<b>Automatic Optimization</b>	
310	Optimize B-Mode image to help improve contrast resolution with one button press	
311	Selectable amount of contrast resolution improvement (low, medium, high)	
312	CTO (Continuous Tissue Optimization) – continuously adjusts B-Mode axial and lateral gain uniformity and overall gain level suppressing the noise	
313	CATO (Continuous Auto Tissue Optimization) – continuously adjusts B-Mode axial and lateral gain uniformity and overall gain level suppressing the noise	
314	Auto CF and PW positioning – adjusts ROI position, sample volume position and steering with one button press	
315	<b>Coded Harmonic Imaging</b>	
316	Available on all 2D and 4D probes	
317	<b>B-Flow</b>	

318	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, ML4-20-D, ML4-20VN-D
319	Background
320	Sensitivity/PRI
321	Acoustic power
322	Frequency
323	Line density
324	Frame average
325	Gray scale map
326	Tint map
327	Dynamic range
328	Rejection
329	Gain
330	Suppression
331	SRI
332	Accumulation
333	Visualization
334	<b>Radiant flow™</b>
335	Easy, fast visualization of tiny vessels, displaying as a 3D effect
336	Available in Color Doppler, Power Doppler and MVI
337	<b>B Steer+</b>
338	Available on the following probes: C1-6-D and all linear probes
339	<b>Coded contrast imaging (Option)</b>
340	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, L3-9i-D, L3-12-D, M5Sc-D, ML6-15-D, RAB6-D, RIC5-9-D, ML4-20-D, ML4-20VN-D, BE9CS-D
341	2 contrast timers
342	Timed updates: 0.05 – 10 seconds
343	Accumulation mode, seven levels
344	Maximum enhance mode
345	Flash
346	Time intensity curve (TIC) analysis
347	Parametric imaging
348	MVI Contrast
349	Ability to save still image during clip acquisition
350	The LOGIQ E10 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.
351	<b>LOGIQView</b>
352	Extended field of view Imaging
353	Up to 160 cm (63") scan length
354	Available on all 2D imaging probes
355	For use in B-Mode
356	CrossXBeam is available on linear probes
357	Auto detection of scan direction
358	Pre-or post-process zoom
359	Rotation
360	Auto best fit on monitor
361	Measurements in B-Mode
362	<b>3D</b>
363	Allows unlimited rotation and planar translation
364	3D reconstruction from CINE sweep
365	Easy 3D available on all probes
366	<b>Advanced 3D</b>
367	Acquisition of color data
368	Automatic rendering
369	3D landscape technology
370	3D movie
371	<b>Real-time 4D (Option)</b>

372	Acquisition modes	<ul style="list-style-type: none"> <li>• Real Time 4D</li> <li>• Spatio-Temporal Image Correlation</li> <li>• Static 3D</li> </ul>
373	Visualization modes	<ul style="list-style-type: none"> <li>• 3D rendering (diverse surface and intensity projection modes)</li> <li>• Sectional planes (3 section planes perpendicular to each other)</li> <li>• Omniview</li> <li>• Volume contrast imaging – Static</li> <li>• Volume contrast imaging – Omniview</li> <li>• Tomographic ultrasound imaging</li> <li>• Volume Analyses <ul style="list-style-type: none"> <li>– VOCAL: semi-auto/manual segmentation tool (segmentation using touch screen),</li> <li>– 3D Static only</li> <li>– Threshold Volume: measure volume below and above a threshold</li> </ul> </li> </ul>
374	Render mode	<ul style="list-style-type: none"> <li>• Surface texture, surface smooth, max-, min- and X-ray (average intensity projection), mix mode of two render modes</li> <li>• HDlive™</li> </ul>
375	SonoRender <i>live</i>	
376	Curved 3 point Render start	
377	3D Movie	
378	Scalpel: 3D cut tool	
379	Display format:	<ul style="list-style-type: none"> <li>• Quad: A-/B-/C-Plane/3D</li> <li>• Dual: A-Plane/3D</li> <li>• Single: 3D or A- or B- or C-Plane</li> </ul>
380	Automated Volume Calculation – VOCAL II	
381	Betaview	
382	<b>Volume navigation (Option)</b>	
383	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, ML4-20VN-D	
384	Sensor-based acquisition	
385	Position markers	
386	Needle tip tracking	
387	Virtual tracking	
388	Auto image registration	
389	Tru3D feature includes	
390	Render modes: gray surface, texture, min-, max-, average-intensity	
391	Measurements: distance, angle, area, volume	
392	3D Movie	
393	<b>Scan assistant</b>	
394	Factory programs	
395	User-defined programs	
396	Steps include image annotations, mode transitions, basic imaging controls and measurement initiation	
397	<b>Compare Assistant</b>	
398	Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning	
399	<b>Breast productivity package</b>	
400	Auto measurement	
401	Worksheet summary includes measurements and locations for lesions and lymph nodes	
402	Feature assessment	
403	BI-RADS™ assessment	
404	User editable	
405	<b>Thyroid productivity package</b>	
406	Auto measurement	
407	Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes	
408	Feature assessment	
409	TI-RADS™ assessment	
410	User editable	
411	<b>Start Assistant</b>	
412	Automatically select category, probe, preset, or scan assistant from worklist exam description	
413	Learn the category, probe, preset, and scan assistant based on exam description	
414	<b>Shear Wave Elastography (Option)</b>	

415	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, ML4-20-D, ML4-20VN-D, L6-24-D	
416	User programmable measurement display in kPa and meters per second	
417	Single and dual view display	
418	Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate, Thyroid, Gynecological	
419	<b>Strain elastography</b>	
420	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, L3-9i-D, L8-18i-D, ML4-20-D, ML4-20VN-D, BE9CS-D, L6-24-D	
421	Relative analysis tool	
422	Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate, Thyroid, Obstetric, Gynecological	
423	<b>UGAP (Option)</b>	
424	Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D	
425	Measures liver attenuation* (attenuation coefficient [dB/cm/MHz]) by auto measure algorithm with reference B-mode	
426	Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)	
427	<b>Quantitative flow analysis</b>	
428	Available in color and power Doppler	
429	<b>TVI (Option)</b>	
430	Available on the following probes: M5Sc-D, 6Tc-RS, 6S-D probes	
431	Myocardial Doppler imaging with color overlay on tissue image	
432	Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information	
433	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane	
434	Q-Analysis: multiple time-motion trace display from selected points in the myocardium	
435	<b>Stress echo (Option)</b>	
436	Advanced and flexible stress echo examination capabilities	
437	Provides exercise and pharmacological protocol templates	
438	6 default templates	
439	Template editor for user configuration of existing templates or creation of new templates	
440	Reference scan display during acquisition for stress level comparison (dual screen)	
441	Baseline level/previous level selectable	
442	Raw data continuous capture	
443	Over 100 sec. available	
444	Wall motion scoring (bull's-eye and segmental)	
445	Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level	
446	<b>Auto EF (Option)</b>	
447	Allows semi-automatic measurement of the global EF (Ejection Fraction)	
448	User editable	
449	<b>Cardiac AFI (Option)</b>	
450	Allows assessment of the complete left ventricle with all segments at a glance by combining three longitudinal views into one comprehensive bull's-eye view	
451	2D strain based data moves into clinical practice	
452	<b>APP API</b>	
453	The App Launchpad is a tab available on the Utilities+ screen – when selected, various applications (“Apps”) can be launched. This is hidden if no apps are installed.	
454	Only validated and released Apps are supported	
455	3rd-party Apps can be purchased through an AppStore on a GE Healthcare (GEHC) website	
456	Consult with a GE Healthcare (GEHC) representative for more details	
457	<b>Raw Data Streaming (optional)</b>	
458	Provides streaming of raw data out to 3rd-party devices designed to process this data	
459	<b>Virtual Convex</b>	
460	Provides a convex field of view	
461	Compatible with CrossXBeam	
462	Available on all linear and sector probes	
463	<b>SRI-HD and Advanced SRI</b>	
464	Speckle reduction imaging	
465	Provides multiple levels of speckle reduction	
466	Compatible with side-by-side DualView display	
467	Advanced SRI: two types selectable	<ul style="list-style-type: none"> <li>• Type 1 <ul style="list-style-type: none"> <li>– Compatible with all linear, convex and sector probes</li> </ul> </li> <li>• Type 2 (Option) <ul style="list-style-type: none"> <li>– Compatible with OB/GYN application</li> </ul> </li> </ul>

468	<b>CrossXBeam</b>	
469	Provides variable angle spatial compounding	
470	Live side-by-side DualView display	
471	Compatible with	<ul style="list-style-type: none"> <li>• Color mode</li> <li>• PW</li> <li>• SRI</li> <li>• Coded harmonic imaging</li> <li>• Virtual convex</li> </ul>
472	Available on all curved and linear probes	
473	<b>Controls available while “live”</b>	
474	Magnification Zoom: Magnifies the entire image on the screen without zoom ROI, 20x maximum zoom factor	
475	Pan Zoom: Magnifies the display of the data within the ROI	
476	HD Zoom: Magnifies the image within the zoom ROI, with higher spatial resolution than original images	
477	B/M/CrossXBeam-Mode	<ul style="list-style-type: none"> <li>• Gain</li> <li>• TGC</li> <li>• Dynamic range</li> <li>• Acoustic output</li> <li>• Framerate control</li> <li>• Sweep speed for M-Mode</li> <li>• CrossXBeam angle</li> </ul>
478	PW-Mode	<ul style="list-style-type: none"> <li>• Gain</li> <li>• Dynamic range</li> <li>• Acoustic output</li> <li>• Transmission frequency</li> <li>• PRF</li> <li>• Wall filter</li> <li>• Spectral averaging</li> <li>• Sample volume gate: length, depth</li> <li>• Velocity scale</li> </ul>
479	Color Flow-Mode	<ul style="list-style-type: none"> <li>• CFM gain</li> <li>• CFM velocity range</li> <li>• Acoustic output</li> <li>• Wall echo filter</li> <li>• Packet size</li> <li>• Frame rate control</li> <li>• CFM spatial filter</li> <li>• CFM frame averaging</li> <li>• CFM line resolution</li> <li>• Frequency/velocity baseline shift</li> </ul>
480	<b>Controls available on “freeze” or recall</b>	
481	Automatic optimization	
482	SRI	
483	CrossXBeam – display non-compounded and compounded image simultaneously in split screen	
484	3D reconstruction from a stored CINE loop	
485	B/M/CrossXBeam-Mode	<ul style="list-style-type: none"> <li>• Gray map optimization</li> <li>• TGC</li> <li>• Colorized B and M</li> <li>• Frame average (loops only)</li> <li>• Dynamic range</li> </ul>
486	Anatomical M-Mode	
487	Magnification zoom	
488	Pan zoom	
489	Maximum read zoom to 8x	
490	Baseline shift	
491	Sweep speed	

492	PW mode	<ul style="list-style-type: none"> <li>• Gray map</li> <li>• Post gain</li> <li>• Baseline shift</li> <li>• Sweep speed</li> <li>• Invert spectral wave form</li> <li>• Compression</li> <li>• Rejection</li> <li>• Colorized spectrum</li> <li>• Display format</li> <li>• Doppler audio</li> <li>• Angle correct</li> <li>• Quick angle correct</li> <li>• Auto angle correct</li> </ul>
493	Color flow	<ul style="list-style-type: none"> <li>• Overall gain (loops and stills)</li> <li>• Color map</li> <li>• Transparency map</li> <li>• Frame averaging (loops only)</li> <li>• Flash suppression</li> <li>• CFM display threshold</li> <li>• Spectral invert for color/Doppler</li> </ul>
494	Anatomical M-Mode on cine loop	
495	4D	<ul style="list-style-type: none"> <li>• Gray map, colorize</li> <li>• Post gain</li> <li>• Change display – single, dual, quad sectional or rendered</li> </ul>
496	<b>Measurements/Calculations</b>	
497	<b>General B-Mode</b>	
498	Depth and distance	
499	Circumference (ellipse/trace)	
500	Area (ellipse/trace)	
501	Volume (ellipsoid)	
502	% Stenosis (area or diameter)	
503	Angle between two lines	
504	Dual B-mode capability	
505	<b>General M-Mode</b>	
506	M-Depth	
507	Distance	
508	Time	
509	Slope	
510	Heart rate	
511	<b>General Doppler measurements/calculations</b>	
512	Velocity	
513	Time	
514	A/B ratio (velocities/frequency ratio)	
515	PS (Peak Systole)	
516	ED (End Diastole)	
517	PS/ED (PS/ED Ratio)	
518	ED/PS (ED/PS Ratio)	
519	AT (Acceleration Time)	
520	ACCEL (Acceleration)	
521	TAMAX (Time Averaged Maximum Velocity)	
522	Volume flow (TAMEAN and vessel area)	
523	Heart rate	
524	PI (Pulsatility Index)	
525	RI (Resistivity Index)	
526	<b>Real-time Doppler Auto Measurements/Calculations</b>	
527	PS (Peak Systole)	
528	ED (End Diastole)	
529	MD (Minimum Diastole)	
530	PI (Pulsatility Index)	
531	RI (Resistivity Index)	
532	AT (Acceleration Time)	

533	ACC (Acceleration)	
534	PS/ED (PS/ED Ratio)	
535	ED/PS (ED/PS Ratio)	
536	HR (Heart Rate)	
537	TAMAX (Time Averaged Maximum velocity)	
538	PVAL (Peak Velocity value)	
539	Volume flow (TAMEAN and vessel area)	
540	<b>Abdominal measurements/calculations</b>	
541	Shear Elasto velocity	
542	Shear Elasto stiffness	
543	Attenuation rate	
544	Attenuation coefficient	
545	Summary reports	
546	<b>Small Parts measurements/calculations</b>	
547	Breast Lesion	
548	Thyroid	
549	Parathyroid	
550	Lymph Node	
551	Nodule	
552	Isthmus AP	
553	Shear Elasto velocity	
554	Shear Elasto stiffness	
555	Summary reports	
556	<b>OB measurements/calculations</b>	
557	Gestational age by	<ul style="list-style-type: none"> <li>• GS (Gestational Sac)</li> <li>• CRL (Crown Rump Length)</li> <li>• FL (Femur Length)</li> <li>• BPD (Biparietal Diameter)</li> <li>• AC (Abdominal Circumference)</li> <li>• HC (Head Circumference)</li> <li>• APTD x TTD (Anterior/Posterior Trunk Diameter by Transverse Trunk Diameter)</li> <li>• FTA (Fetal Trunk Cross-sectional Area)</li> <li>• HL (Humerus Length)</li> <li>• BD (Binocular Distance)</li> <li>• FT (Foot Length)</li> <li>• OFD (Occipital Frontal Diameter)</li> <li>• TAD (Transverse Abdominal Diameter)</li> <li>• TCD (Transverse Cerebellum Diameter)</li> <li>• THD (Thorax Transverse Diameter)</li> <li>• TIB (Tibia Length)</li> <li>• ULNA (Ulna Length)</li> <li>• OOD (Outer Orbital Diameter)</li> <li>• IOD (Inner Orbital Diameter)</li> <li>• FIB (Fibula length)</li> <li>• Radius (Radius length)</li> <li>• LV (Lateral Ventricle width) (= SL)</li> </ul>
558	Estimated Fetal Weight (EFW) by:	<ul style="list-style-type: none"> <li>• AC, BPD</li> <li>• AC, BPD, FL</li> <li>• AC, BPD, FL, HC</li> <li>• AC, FL</li> <li>• AC, FL, HC</li> <li>• AC, HC</li> <li>• BPD, APTD, TTD, FL</li> <li>• BPD, APTD, TTD, SL</li> </ul>
559	Fetal graphical trending	
560	Growth percentiles	
561	Multi-gestational calculations (4)	
562	Fetal qualitative description (anatomical survey)	
563	Fetal environmental description (biophysical profile)	
564	Programmable OB tables	
565	Over 20 selectable OB calculations	

566	Expanded worksheets
567	Summary Reports
568	<b>OB Calculations and ratios</b>
569	FL/BPD
570	FL/AC
571	FL/HC
572	HC/AC
573	CI (Cephalic Index)
574	AFI (Amniotic Fluid Index)
575	CTAR (Cardio-Thoracic Area Ratio)
576	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
577	<b>OB measure assistant</b>
578	Allows automatic measurement of BPD, HC, FL, AC and HL
579	User editable
580	<b>SonoNT and SonoIT</b>
581	SonoNT measures the contour detection of the NT border
582	SonoIT is a system supported measurement for Intracranial Translucency
583	<b>GYN measurements/calculations</b>
584	Right ovary length, width, height
585	Left ovary length, width, height
586	Uterus length, width, height
587	Cervix length, trace
588	Ovarian volume
589	ENDO (Endometrial thickness)
590	Ovarian RI
591	Uterine RI
592	Follicular measurements
593	Fibroid measurements
594	Qualitative description (anatomical survey)
595	Mean Uterine Artery (Gomez) Doppler Measurement
596	Summary reports
597	<b>Vascular measurements/calculations</b>
598	SYS DCCA (Systolic Distal Common Carotid Artery)
599	DIAS DCCA (Diastolic Distal Common Carotid Artery)
600	SYS MCCA (Systolic Mid Common Carotid Artery)
601	DIAS MCCA (Diastolic Mid Common Carotid Artery)
602	SYS PCCA (Systolic Proximal Common Carotid Artery)
603	DIAS PCCA (Diastolic Proximal Common Carotid Artery)
604	SYS DICA (Systolic Distal Internal Carotid Artery)
605	DIAS DICA (Diastolic Distal Internal Carotid Artery)
606	SYS MICA (Systolic Mid Internal Carotid Artery)
607	DIAS MICA (Diastolic Mid Internal Carotid Artery)
608	SYS PICA (Systolic Proximal Internal Carotid Artery)
609	DIAS PICA (Diastolic Proximal Internal Carotid Artery)
610	SYS DECA (Systolic Distal External Carotid Artery)
611	DIAS DECA (Diastolic Distal External Carotid Artery)
612	SYS PECA (Systolic Proximal External Carotid Artery)
613	DIAS PECA (Diastolic Proximal External Carotid Artery)
614	VERT (Systolic Vertebral Velocity)
615	SUBCLAV (Systolic Subclavian Velocity)
616	Auto IMT
617	Summary reports
618	<b>Urological measurements/calculations</b>
619	Bladder volume
620	Prostate volume
621	Left/right renal volume
622	Generic volume
623	Post-void bladder volume
624	Pelvic floor measurements
625	Summary reports

626	<b>TCD measurements/calculations</b>	
627	MCA, ACA, PCA, ICA	
628	AComA, PCom A	
629	Vert	
630	Basilar	
631	MCA/ICA Ratio	
632	Summary reports	
633	<b>Pediatric and Neonatal measurements/calculations</b>	
634	Hip angle	
635	Hip orientation	
636	Summary reports	
637	<b>Probes (All Optional)</b>	
638	<b>XDclear Technology includes Single Crystal, Acoustic Amplifier and Cool Stack Technologies</b>	
639	<b>6S-D, sector probe</b>	
640	Applications	Pediatric cardiac, pediatric abdomen
641	Bandwidth	2.0 – 8.0 MHz
642	Number of elements	96
643	Field of view (max.)	115°
644	Physical foot print	15 x 9 mm
645	B-Mode frequency	4.0, 4.2, 5.0, 5.5, 6.5 MHz
646	Harmonic frequency	4.7, 4.9, 5.3, 5.7, 6.1, 6.3 MHz
647	PW Doppler frequency	2.8, 3.1, 3.6, 4.2 MHz
648	Color Doppler frequency	2.7, 3.1, 4.2, 5.0 MHz
649	<b>6Tc-RS, trans-esophageal probe</b>	
650	Applications	Adult cardiac
651	Bandwidth	2.0 – 8.0 MHz
652	Number of elements	64
653	Field of view (max.)	90°
654	Physical foot print	37 x 13 x 10 mm
655	B-Mode frequency	5.0, 6.0, 6.5 MHz
656	Harmonic frequency	6.0 MHz
657	PW Doppler frequency	3.1, 3.6, 4.2, 5.0, 6.3 MHz
658	Color Doppler frequency	3.3, 4.1, 4.7, 5.5 MHz
659	<b>BE9CS-D, Bi-plane micro convex probe</b>	
660	Applications	Urology
661	Biopsy guide	Single angle, disposable (E8013AW); Single angle, reusable (E8013AX)
662	Bandwidth	3.0 - 12.0 MHz
663	Number of elements	96 x 2
664	Field of view (max.)	133°
665	Physical foot print	19 x 19 mm
666	B-Mode frequency	6.0, 7.0, 8.0, 9.0 MHz
667	Harmonic frequency	7.0, 8.0, 9.0, 10.0 MHz
668	PW Doppler frequency	4.2, 5.0, 6.3 MHz
669	Color Doppler frequency	4.3, 6.3, 8.2 MHz
670	<b>C1-6-D, XDclear™ convex probe</b>	
671	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal
672	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4917VB)
673	Bandwidth	1.0 – 6.0 MHz
674	Number of elements	192
675	Field of view (max.)	80°
676	Physical foot print	67 x 11 mm
677	B-Mode frequency	2.0, 2.5, 3.0, 4.0 MHz
678	Harmonic frequency	1.5, 2.5, 3.0, 4.5, 6.0, 6.5 MHz
679	PW Doppler frequency	1.7, 2.1, 2.5, 3.6 MHz
680	Color Doppler frequency	1.8, 2.1, 2.5, 2.8, 3.0 MHz
681	<b>C1-6VN-D, VNNav inside XDclear convex probe</b>	
682	VNNav sensor inside probe for Volume Navigation tracking without sensor cables	
683	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal
684	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4917VB)

685	Bandwidth	1.0 – 6.0 MHz
686	Number of elements	192
687	Field of view (max.)	80°
688	Physical foot print	67 x 11 mm
689	B-Mode frequency	2.0, 2.5, 3.0, 4.0 MHz
690	Harmonic frequency	1.5, 2.5, 3.0, 4.5, 6.0, 6.5 MHz
691	PW Doppler frequency	1.7, 2.1, 2.5, 3.6 MHz
692	Color Doppler frequency	1.8, 2.1, 2.5, 2.8, 3.0 MHz
693	<b>C2-7-D, micro convex biopsy probe</b>	
694	Applications	Abdomen, pediatric
695	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40482LK), Multi-Angle, reusable stainless bracket (H40482LL)
696	Bandwidth	1.0 – 6.0 MHz
697	Number of elements	144
698	Field of view (max.)	110°
699	Physical foot print	31 x 10 mm
700	B-Mode frequency	2.5, 4.0, 6.0 MHz
701	Harmonic frequency	3.0, 4.0, 5.0, 6.0 MHz
702	PW Doppler frequency	1.8, 2.1, 2.5, 3.1 MHz
703	Color Doppler frequency	2.1, 2.4, 3.1, 3.7 MHz
704	<b>C2-7VN-D, VNav inside micro convex biopsy probe</b>	
705	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
706	Applications	Abdomen, pediatric
707	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40482LK), Multi-Angle, reusable stainless bracket (H40482LL)
708	Bandwidth	1.0 – 6.0 MHz
709	Number of elements	144
710	Field of view (max.)	110°
711	Physical foot print	31 x 10 mm
712	B-Mode frequency	2.5, 4.0, 6.0 MHz
713	Harmonic frequency	3.0, 4.0, 5.0, 6.0 MHz
714	PW Doppler frequency	1.8, 2.1, 2.5, 3.1 MHz
715	Color Doppler frequency	2.1, 2.4, 3.1, 3.7 MHz
716	<b>C2-9-D, XDclear convex probe</b>	
717	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal
718	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BA)
719	Bandwidth	2.0 – 9.0 MHz
720	Number of elements	192
721	Field of view (max.)	80°
722	Physical foot print	52 x 9 mm
723	B-Mode frequency	3.0, 4.5, 6.0, 7.0 MHz
724	Harmonic frequency	2.5, 3.5, 5.0, 7.0, 9.0 MHz
725	PW Doppler frequency	2.5, 3.1, 3.6, 4.2, 5.0, 6.3 MHz
726	Color Doppler frequency	3.1, 4.2, 4.6, 5.4 MHz
727	<b>C2-9VN-D, VNav inside XDclear convex probe</b>	
728	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
729	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal
730	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BA)
731	Bandwidth	2.0 – 9.0 MHz
732	Number of elements	192
733	Field of view (max.)	80°
734	Physical foot print	52 x 9 mm
735	B-Mode frequency	3.0, 4.5, 6.0, 7.0 MHz
736	Harmonic frequency	2.5, 3.5, 5.0, 7.0, 9.0 MHz
737	PW Doppler frequency	2.5, 3.1, 3.6, 4.2, 5.0, 6.3 MHz
738	Color Doppler frequency	3.1, 4.2, 4.6, 5.4 MHz
739	<b>C3-10-D, XDclear micro convex probe</b>	
740	Applications	Abdomen, neonatal, pediatric, peripheral vascular, neonatal transcranial, small part
741	Bandwidth	2.0 – 11.0 MHz
742	Number of elements	192

743	Field of view (max.)	95°
744	Physical foot print	26 x 5 mm
745	B-Mode frequency	4.0, 6.0, 8.0 MHz
746	Harmonic frequency	6.0, 8.0, 10.0 MHz
747	PW Doppler frequency	3.1, 4.2, 6.3, 7.1 MHz
748	Color Doppler frequency	3.9, 5.3, 6.6 MHz
749	<b>IC5-9-D, micro convex probe</b>	
750	Applications	OB/GYN, urology
751	Biopsy guide	Single angle, disposable with a disposable bracket (E8385MJ) or reusable bracket (H40412LN)
752	Bandwidth	3.0 – 10.0 MHz
753	Number of elements	192
754	Field of view (max.)	180°
755	Physical foot print	26 x 6 mm
756	B-Mode frequency	4.5, 5.0, 5.5, 6.0, 7.0, 8.0 MHz
757	Harmonic frequency	6.0, 6.5, 7.0, 9.0 MHz
758	PW Doppler frequency	3.6, 4.2, 5.0 MHz
759	Color Doppler frequency	4.6, 5.9, 6.7 MHz
760	<b>L2-9-D, XDclear linear probe</b>	
761	Applications	Peripheral vascular, pediatric, abdomen, OB/GYN, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial and small parts including breast, thyroid and scrotal
762	Biopsy guide	Multi-angle, disposable with a reusable bracket (H44901AM)
763	Bandwidth	2.0 – 10.0 MHz
764	Number of elements	192
765	Field of view (max.)	44 mm
766	Physical foot print	53 x 14 mm
767	B-Mode frequency	4.0, 4.5, 5.0, 6.0, 7.0 MHz
768	Harmonic frequency	5.0, 6.0, 7.0, 8.0, 9.0, 9.4 MHz
769	PW Doppler frequency	2.5, 2.8, 3.1, 3.6, 4.2, 5.0 MHz
770	Color Doppler frequency	3.1, 4.0, 4.6, 5.3 MHz
771	<b>L2-9VN-D, VNNav inside XDclear linear probe</b>	
772	VNNav sensor inside probe for Volume Navigation tracking without sensor cables	
773	Applications	Peripheral vascular, pediatric, abdomen, OB/GYN, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial and small parts including breast, thyroid and scrotal
774	Biopsy guide	Multi-angle, disposable with a reusable bracket (H44901AM)
775	Bandwidth	2.0 – 10.0 MHz
776	Number of elements	192
777	Field of view (max.)	44 mm
778	Physical foot print	53 x 14 mm
779	B-Mode frequency	4.0, 4.5, 5.0, 6.0, 7.0 MHz
780	Harmonic frequency	5.0, 6.0, 7.0, 8.0, 9.0, 9.4 MHz
781	PW Doppler frequency	2.5, 2.8, 3.1, 3.6, 4.2, 5.0 MHz
782	Color Doppler frequency	3.1, 4.0, 4.6, 5.3 MHz
783	<b>L3-9i-D, linear probe</b>	
784	Applications	Abdomen, intraoperative
785	Bandwidth	2.0 – 10.0 MHz
786	Number of elements	192
787	Field of view (max.)	38 mm
788	Physical foot print	38 x 5 mm
789	B-Mode frequency	3.0, 5.0, 7.0 MHz
790	Harmonic frequency	3.0, 6.0, 9.0 MHz
791	PW Doppler frequency	3.1, 3.6, 5.0, 6.3, 7.1 MHz
792	Color Doppler frequency	2.6, 2.9, 4.1, 5.4 MHz
793	<b>L3-12-D, linear probe</b>	
794	Applications	Abdomen, OB, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular, pediatrics, breast
795	Biopsy guide	Multi-angle, disposable with a reusable bracket (H78652PA)
796	Bandwidth	3.0 – 11.0 MHz
797	Number of elements	256
798	Field of view (max.)	51 mm

799	Physical foot print	51 x 4 mm
800	B-Mode frequency	6.0, 8.0, 10.0, 12.0 MHz
801	Harmonic frequency	4.0, 6.0, 8.0, 10.0, 12.0 MHz
802	PW Doppler frequency	4.2, 5.0, 6.3, 8.3 MHz
803	Color Doppler frequency	4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz
804	<b>L4-20t-D, XDClear linear probe</b>	
805	Applications	General musculoskeletal, superficial musculoskeletal, vascular
806	Biopsy guide	Multi-angle, disposable with a reusable bracket (H45201BLF)
807	Bandwidth	4.0 - 15.0 MHz
808	Number of elements	256
809	Field of view (max.)	39 mm
810	Physical foot print	48 x 12 mm
811	B-Mode frequency	10, 14, 18 MHz
812	Harmonic frequency	10, 13, 14, 16, 18, 19, 20 MHz
813	PW Doppler frequency	5.6, 7.1, 8.3, 10.0 MHz
814	Color Doppler frequency	5.7, 6.3, 6.6, 6.8, 7.5, 8.0, 9.0, 9.5, 10.0 MHz
815	<b>L6-24-D, linear probe</b>	
816	Applications	General musculoskeletal, superficial musculoskeletal, neonatal, small parts, breast, peripheral vascular, abdomen
817	Bandwidth	6.0 - 20.0 MHz
818	Number of elements	192
819	Field of view (max.)	26 mm
820	Physical foot print	32 x 8 mm
821	B-Mode frequency	12.0, 16.0, 21.0 MHz
822	Harmonic frequency	12.0, 18.0, 20.0, 24.0 MHz
823	PW Doppler frequency	8.3, 10.0, 12.5 MHz
824	Color Doppler frequency	9.2, 11.2, 12.2 MHz
825	<b>L8-18i-D, linear probe</b>	
826	Applications	Small parts, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal, superficial musculoskeletal, intraoperative
827	Bandwidth	4.0 - 15.0 MHz
828	Number of elements	168
829	Field of view (max.)	25 mm
830	Physical foot print	35 x 10 mm
831	B-Mode frequency	7.0, 9.0, 13.0, 16.0 MHz
832	Harmonic frequency	14.0, 16.0, 18.0 MHz
833	PW Doppler frequency	5.0, 6.3, 7.1, 8.3 MHz
834	Color Doppler frequency	6.3, 6.7, 9.6, 10.5 MHz
835	<b>M5Sc-D, XDClear sector probe</b>	
836	Applications	Adult cardiac, pediatric cardiac, adult cephalic, abdominal
837	Biopsy guide	Multi-angle, disposable with a reusable bracket (H45561FC)
838	Bandwidth	1.0 - 5.0 MHz
839	Number of elements	288
840	Field of view (max.)	120°
841	Physical foot print	28 x 17 mm
842	B-Mode frequency	2.0, 2.5, 3.5, 4.5 MHz
843	Harmonic frequency	2.4, 3.0, 3.2, 3.3, 3.7, 4.0, 4.5 MHz
844	PW Doppler frequency	1.6, 1.7, 1.8, 1.9, 2.1, 2.5, 3.1, 3.6 MHz
845	Color Doppler frequency	1.7, 1.8, 1.9, 2.2, 2.4, 2.5, 3.0, 3.1, 3.7, 3.8 MHz
846	<b>ML4-20-D, matrix array linear probe</b>	
847	Applications	Abdomen, peripheral vascular, neonatal, pediatric, neonatal transcranial, general musculoskeletal, superficial musculoskeletal and small parts including breast, thyroid and scrotal
848	Biopsy guide	Multi-angle, disposable with a reusable bracket (H44901AV)
849	Bandwidth	3.0 - 16.0 MHz
850	Number of elements	1008
851	Field of view (max.)	50 mm
852	Physical foot print	60 x 15 mm

853	B-Mode frequency	7,0, 9,0, 11,0, 13,0, 15,0, 17,0, 18,0 MHz
854	Harmonic frequency	10,0, 12,0, 13,0, 15,0, 16,0, 18,0, 20,0 MHz
855	PW Doppler frequency	4,5, 5,0, 6,3, 8,3 MHz
856	Color Doppler frequency	5,3, 6,2, 8,0, 10,0 MHz
857	<b>ML4-20VN-D, matrix array linear probe</b>	
858	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
859	Applications	Abdomen, peripheral vascular, neonatal, pediatric, neonatal transcranial, general musculoskeletal, superficial musculoskeletal and small parts including breast, thyroid and scrotal
860	Biopsy guide	Multi-angle, disposable with a reusable bracket (H44901AV)
861	Bandwidth	3,0 – 16,0 MHz
862	Number of elements	1008
863	Field of view (max.)	50 mm
864	Physical foot print	60 x 15 mm
865	B-Mode frequency	7,0, 9,0, 11,0, 13,0, 15,0, 17,0, 18,0 MHz
866	Harmonic frequency	10,0, 12,0, 13,0, 15,0, 16,0, 18,0, 20,0 MHz
867	PW Doppler frequency	4,5, 5,0, 6,3, 8,3 MHz
868	Color Doppler frequency	5,3, 6,2, 8,0, 10,0 MHz
869	<b>ML6-15-D, matrix array linear probe</b>	
870	Applications	Abdomen, peripheral vascular, neonatal, pediatric, neonatal transcranial, general musculoskeletal, superficial musculoskeletal and small parts including breast, thyroid and scrotal
871	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LJ)
872	Bandwidth	4,0 – 16,0 MHz
873	Number of elements	1008
874	Field of view (max.)	50 mm
875	Physical foot print	50 x 10 mm
876	B-Mode frequency	7,0, 9,0, 10,0, 11,0, 12,0, 15,0 MHz
877	Harmonic frequency	10,0, 12,0, 14,0, 15,0 MHz
878	PW Doppler frequency	5,0, 6,3, 8,3 MHz
879	Color Doppler frequency	5,1, 6,1, 7,3, 8,2, 9,2, 10,3, 11,4, 12,4 MHz
880	<b>P2D, CW split crystal probe</b>	
881	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
882	Frequency	2,1 MHz
883	<b>P6D, CW split crystal probe</b>	
884	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
885	Frequency	6,3 MHz
886	<b>P8D, CW split crystal probe</b>	
887	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
888	Frequency	8,3 MHz
889	<b>RAB6-D, convex volume probe</b>	
890	Applications	Abdomen, OB/GYN, pediatric, neonatal
891	Biopsy guide	Single angle, reusable bracket (H46701AE)
892	Bandwidth	2,0 – 8,0 MHz
893	Number of elements	192
894	Field of view (max.)	80°
895	Physical foot print	62 x 34 mm
896	B-Mode frequency	3,5, 5,0, 8,0 MHz
897	Harmonic frequency	4,0, 5,0, 6,5, 8,0 MHz
898	PW Doppler frequency	3,1, 4,2, 5,0 MHz
899	Color Doppler frequency	2,8, 3,5, 3,8 MHz
900	<b>RIC5-9-D, convex volume probe</b>	
901	Applications	OB/GYN, urology
902	Biopsy guide	Single angle, reusable (H46721R)
903	Bandwidth	3,0 – 10,0 MHz
904	Number of elements	192
905	Field of view (max.)	180°
906	Physical foot print	32 x 27 mm
907	B-Mode frequency	5,0, 5,5, 6,0, 6,5, 7,0, 8,0 MHz
908	Harmonic frequency	6,0, 6,5, 7,0, 9,0 MHz
909	PW Doppler frequency	3,6, 4,2, 5,0 MHz

910	Color Doppler frequency	4.3, 6.1, 7.3 MHz
911	<b>Vscan Air CL, Convex probe</b>	
912	Applications	Abdomen, OB, peripheral vascular, general musculoskeletal, superficial musculoskeletal, cardiac, pleural
913	Bandwidth	2 - 5 MHz
914	Number of elements	128
915	Field of view (max.)	67°
916	Physical foot print	64 x 16 mm
917	B-Mode frequency	3.3, 4.4 MHz
918	Harmonic frequency	4.4 MHz
919	PW Doppler frequency	Not Supported
920	Color Doppler frequency	2.7 MHz
921	<b>Vscan Air CL, Linear probe</b>	
922	Applications	Peripheral Vascular, Thyroid, Scrotal, Breast, general musculoskeletal, superficial musculoskeletal, pediatric cephalic, pleural
923	Bandwidth	3 - 12 MHz
924	Number of elements	192
925	Field of view (max.)	38 mm
926	Physical foot print	38 x 12 mm
927	B-Mode frequency	8 MHz
928	Harmonic frequency	8.5 MHz
929	PW Doppler frequency	Not Supported
930	Color Doppler frequency	6 MHz
931	<b>External Inputs and outputs (not including on-board peripherals)</b>	
932	HDMI	
933	Ethernet	
934	Multiple USB 3.0 ports	
935	<b>Safety Conformance</b>	
936	<b>The LOGIQ E10 is:</b>	
937	Classified to ANSI/AAMI ES60601-1 Medical Electrical Equipment, Part 1: General Requirements for Safety by a Nationally Recognized Test Lab	
938	Certified to CSA CAN/CSA-C22.2 NO. 60601-1 General requirements for safety	
939	CE Marked to EU Medical Device Regulation MDR 2017/745	
940	Certified to CSA CAN/CSA-C22.2 NO. 60601-1 General requirements for safety:	
941	<ul style="list-style-type: none"> <li>• IEC/EN 60601-1 Medical electrical equipment – Part 1: General requirements for basic safety and essential performance</li> </ul>	
942	<ul style="list-style-type: none"> <li>• IEC/EN 60601-1-2 Medical electrical equipment – Part 1-2: General requirements for safety – Collateral Standard: Electromagnetic compatibility – requirements and tests</li> </ul>	
943	<ul style="list-style-type: none"> <li>• IEC/EN 60601-1-6 Medical electrical equipment Part 1 -6: General requirements for basic safety and essential performance – Collateral Standard: Usability</li> </ul>	
944	<ul style="list-style-type: none"> <li>• IEC/EN 60601-1-9 Medical electrical equipment Part 1 -9: General requirements for basic safety and essential performance – Collateral Standard: Requirements for environmentally conscious design</li> </ul>	
945	<ul style="list-style-type: none"> <li>• IEC/EN 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment</li> </ul>	
946	<ul style="list-style-type: none"> <li>• IEC/EN 62366-1 Application of usability engineering to medical devices</li> </ul>	
947	<ul style="list-style-type: none"> <li>• IEC/EN 62304 Software Life Cycle Processes</li> </ul>	
948	<ul style="list-style-type: none"> <li>• IEC/EN 62359 Ultrasonic – Field characterization – Test methods for the determination of thermal and mechanical indices related to medical diagnostic ultrasonic fields</li> </ul>	
949	<ul style="list-style-type: none"> <li>• EN ISO 15223-1: Symbols to be used with medical device labels, labelling and information to be supplied</li> </ul>	
950	<ul style="list-style-type: none"> <li>• ISO 10993-1 Biological evaluation of medical devices – Part 1 Evaluation and testing</li> </ul>	
951	<ul style="list-style-type: none"> <li>• ISO 17664-2 : Processing of health care products – Information to be provided by the medical device manufacturer for the processing of medical devices</li> </ul>	
952	<ul style="list-style-type: none"> <li>• ISO14971 (Medical devices – Application of risk management to medical devices)</li> </ul>	
953	<ul style="list-style-type: none"> <li>• EMC Emissions Group 1, class A device requirements as per Sub clause 4.2 of CISPR 11</li> </ul>	
954	<ul style="list-style-type: none"> <li>• WEEE (Waste Electrical and Electronic Equipment)</li> </ul>	
955	<ul style="list-style-type: none"> <li>• RoHS according to 2011/65 EU 2015/863 EU Including national deviations</li> </ul>	
956	<ul style="list-style-type: none"> <li>• Wireless equipment shall be certified to FCC, RED and Japan Radio Law</li> </ul>	
957	<ul style="list-style-type: none"> <li>• Medical Device Good Manufacturing Practice Manual issued by the FDA (Food and Drug Administration, Department of Health, USA)</li> </ul>	
958	<b>Supplement: cardiac measurements/calculations</b>	
959	<b>B-Mode measurements</b>	

960	Aorta	<ul style="list-style-type: none"> <li>• Aortic Root Diameter (Ao Root Diam)</li> <li>• Aortic Arch Diameter (Ao Arch Diam)</li> <li>• Ascending Aortic diameter (Ao Asc)</li> <li>• Descending Aortic Diameter (Ao Desc Diam)</li> <li>• Aorta Isthmus (Ao Isthmus)</li> <li>• Aorta (Ao st junct)</li> </ul>
961	Aortic valve	<ul style="list-style-type: none"> <li>• Aortic Valve Cusp Separation (AV Cusp)</li> <li>• Aortic Valve Area Planimetry (AVA Planimetry)</li> <li>• (Trans AVA)</li> </ul>
962	Left atrium	<ul style="list-style-type: none"> <li>• Left Atrium Diameter (LA Diam)</li> <li>• LA Length (LA Major)</li> <li>• LA Width (LA Minor)</li> <li>• Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao ratio)</li> <li>• Left Atrium Area (LAA(d), LAA(s))</li> <li>• Left Atrium Volume, Single Plane, Method of Disk (LAEDV A2C, LAESV A2C) (LAEDV A4C, LAESV A4C), (LAEDV A-L, LAEDV Index A-L, LAESV A-L, LAESV Index A-L)</li> </ul>
963	Left ventricle	<ul style="list-style-type: none"> <li>• Left Ventricle Mass (LVPWd, LVPWs)</li> <li>• Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)</li> <li>• Left Ventricle Internal Diameter (LVIDd, LVI Ds) Left Ventricle Length (LVLd, LVLs)</li> <li>• Left Ventricle Outflow Tract Diameter (LVOT Diam)</li> <li>• Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs)</li> <li>• Left Ventricle Length (LV Major)</li> <li>• Left Ventricle Width (LV Minor)</li> <li>• Left Ventricle Outflow Tract Area (LVOT)</li> <li>• Left Ventricle Area, Two Chamber/Four Chamber/Short Axis (LVA (d), LVA (s))</li> <li>• Left Ventricle Endocardial Area, Width (LVA (d), LVA(s))</li> <li>• Left Ventricle Epicardial Area, Length (LVAepi (d), LVAepi (s))</li> <li>• Left Ventricle Mass Index (LVPWd, LVPWs)</li> <li>• Ejection Fraction, Teichholz/Cube (LVIDd, LVIDs)</li> </ul>
964	Left ventricle continued	<ul style="list-style-type: none"> <li>• Left Ventricle Posterior Wall Fractional Shortening (LVPWd, LVPWs)</li> <li>• Left Ventricle Stroke Index, Teichholz/Cube (LVIDd, LVIDs and Body Surface Area)</li> <li>• Left Ventricle Fractional Shortening (LVIDd, LVIDs)</li> <li>• Left Ventricle Stroke Volume, Teichholz/Cubic (LVIDd, LVIDs)</li> <li>• Left Ventricle Stroke Index, Single Plane, Two Chamber, Method of Disk (LVI Dd, LVIDs, LVSD, LVSS)</li> <li>• Left Ventricle Stroke Index, Single Plane, Four Chamber, Method of Disk (LVI Dd, LVIDs, LVSD, LVSS)</li> <li>• Left Ventricle Stroke Index, Bi-Plane, Bullet, Method of Disk (LVAd, LVAs)</li> <li>• Interventricular Septum (IVS)</li> <li>• Left Ventricle Internal Diameter (LVI D)</li> <li>• Left Ventricle Posterior Wall Thickness (LVPW)</li> </ul>
965	Mitral valve	<ul style="list-style-type: none"> <li>• Mitral Valve Annulus Diameter (MV Ann Diam)</li> <li>• E-Point-to-Septum Separation (EPSS)</li> <li>• Mitral Valve Area Planimetry (MVA Planimetry)</li> </ul>
966	Pulmonic valve	<ul style="list-style-type: none"> <li>• Pulmonic Valve Area (PV Planimetry)</li> <li>• Pulmonic Valve Annulus Diameter (PV Annulus Diam)</li> <li>• Pulmonic Diameter (Pulmonic Diam)</li> </ul>
967	Right atrium	<ul style="list-style-type: none"> <li>• Right Atrium Diameter, Length (RAD Ma)</li> <li>• Right Atrium Diameter, Width (RAD Mi)</li> <li>• Right Atrium Area (RAA)</li> <li>• Right Atrium Volume, Single Plane, Method of Disk (RAAd)</li> <li>• Right Atrium Volume, Systolic, Single Plane, Method of Disk (RAAs)</li> </ul>

968	Right ventricle	<ul style="list-style-type: none"> <li>• Right Ventricle Outflow Tract Area (RVOT Planimetry)</li> <li>• Left Pulmonary Artery Area (LPA Area)</li> <li>• Right Pulmonary Artery Area (RPA Area)</li> <li>• Right Ventricle Internal Diameter (RVIDd, RVIDs)</li> <li>• Right Ventricle Diameter, Length (RVD Ma)</li> <li>• Right Ventricle Diameter, Width (RVD Mi)</li> <li>• Right Ventricle Wall Thickness (RVAWd, RVAWs)</li> <li>• Right Ventricle Outflow Tract Diameter (RVOT Diam)</li> <li>• Left Pulmonary Artery (LPA)</li> <li>• Main Pulmonary Artery (MPA)</li> <li>• Right Pulmonary Artery (RPA)</li> </ul>
969	System inferior vena cava	<ul style="list-style-type: none"> <li>• Systemic Vein Diameter (Systemic Diam)</li> <li>• Patent Ductus Arteriosis Diameter (PDA Diam)</li> <li>• Pericard Effusion (PEs)</li> <li>• Patent Foramen Ovale Diameter (PFO Diam)</li> <li>• Ventricular Septal Defect Diameter (VSD Diam)</li> <li>• Interventricular Septum (IVS) Fractional Shortening (IVSd, IVSs)</li> </ul>
970	Tricuspid valve	<ul style="list-style-type: none"> <li>• Tricuspid Valve Area (TV Panimetry)</li> <li>• Tricuspid Valve Annulus Diameter (TV Annulus Diam)</li> </ul>
971	<b>M-Mode measurements</b>	
972	Aorta	<ul style="list-style-type: none"> <li>• Aortic Root Diameter (Ao Root Diam)</li> <li>• Aortic Valve</li> <li>• Aortic Valve Diameter (AV Diam)</li> <li>• Aortic Valve Cusp separation (AV Cusp)</li> <li>• Aortic Valve Ejection Time (LVET)</li> </ul>
973	Left atrium	<ul style="list-style-type: none"> <li>• Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio)</li> <li>• Left Atrium Diameter (LA Diam)</li> </ul>
974	Left ventricle	<ul style="list-style-type: none"> <li>• Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)</li> <li>• Left Ventricle Internal Diameter (LVIDd, LVI Ds)</li> <li>• Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs)</li> <li>• Left Ventricle Ejection Time (LVET)</li> <li>• Left Ventricle Pre-Ejection Period (LVPEP)</li> <li>• Interventricular Septum (IVS)</li> <li>• Left Ventricle Internal Diameter (LVI D)</li> <li>• Left Ventricle Posterior Wall Thickness (LVPW)</li> </ul>
975	Mitral valve	<ul style="list-style-type: none"> <li>• E-Point-to-Septum Separation (EPSS)</li> <li>• Mitral Valve Leaflet Separation (D-E Excursion)</li> <li>• Mitral Valve Anterior Leaflet Excursion (D-E Excursion)</li> <li>• Mitral valve D-E Slope (D-E Slope)</li> <li>• Mitral Valve E-F Slope (E-F Slope)</li> <li>• Mitral Annular Plane Systolic Excursion (MAPSE)</li> </ul>
976	Pulmonic valve	<ul style="list-style-type: none"> <li>• QRS Complex to End of Envelope (Q-PV close)</li> </ul>
977	Right ventricle	<ul style="list-style-type: none"> <li>• Right Ventricle Internal Diameter (RVIDd, RVIDs)</li> <li>• Right Ventricle Wall Thickness (RVAWd, RVAWs)</li> <li>• Right Ventricle Outflow Tract Diameter (RVOT Diam)</li> <li>• Right Ventricle Ejection Time (RVET)</li> <li>• Right Ventricle Pre-Ejection Period (RVPEP)</li> </ul>
978	System	<ul style="list-style-type: none"> <li>• Pericard Effusion (PE (d))</li> </ul>
979	Tricuspid valve	<ul style="list-style-type: none"> <li>• QRS Complex to End of Envelope (Q-TV close)</li> <li>• Tricuspid Annular Plane Systolic Excursion (TAPSE)</li> </ul>
980	<b>Doppler Mode measurements</b>	

981	Aortic valve	<ul style="list-style-type: none"> <li>• Aortic Insufficiency Mean Pressure Gradient (AR Trace)</li> <li>• Aortic Insufficiency Peak Pressure Gradient (AR Vmax)</li> <li>• Aortic Insufficiency End Diastole Pressure Gradient (AR Trace)</li> <li>• Aortic Insufficiency Mean Velocity (AR Trace)</li> <li>• Aortic Insufficiency Velocity Time Integral (AR Trace)</li> <li>• Aortic Valve Mean Velocity (AV Trace)</li> <li>• Aortic Valve Velocity Time Integral (AV Trace)</li> <li>• Aortic Valve Mean Pressure Gradient (AV Trace)</li> <li>• Aortic Valve Peak Pressure Gradient (AR Vmax)</li> <li>• Aortic Insufficiency Peak Velocity (AR Vmax)</li> <li>• Aortic Insufficiency End-Diastolic Velocity (AR Trace)</li> <li>• Aortic Valve Peak Velocity (AV Vmax)</li> <li>• Aortic Valve Peak Velocity at Point E (AV Vmax)</li> </ul>
982	Aortic valve continued	<ul style="list-style-type: none"> <li>• Aorta Proximal Coarctation (Coarc Pre-Duct)</li> <li>• Aorta Distal Coarctation (Coarc Post-Duct)</li> <li>• Aortic Valve Insufficiency Pressure Half Time (AR PHT)</li> <li>• Aortic Valve Flow Acceleration (AV Trace)</li> <li>• Aortic Valve Pressure Half Time (AV Trace)</li> <li>• Aortic Valve Acceleration Time (AV Acc Time)</li> <li>• Aortic Valve Deceleration Time (AV Dec Time)</li> <li>• Aortic Valve Ejection Time (AVET)</li> <li>• Aortic Valve Acceleration to Ejection Time Ratio (AV Acc Time, AVET)</li> <li>• Aortic Valve Area(VTI): AVA (Vmax)</li> </ul>
983	Left ventricle	<ul style="list-style-type: none"> <li>• Left Ventricle Outflow Tract Peak Pressure Gradient (LVOT Vmax)</li> <li>• Left Ventricle Outflow Tract Peak Velocity (LVOT Vmax)</li> <li>• Left Ventricle Outflow Tract Mean Pressure Gradient (LVOT Trace)</li> <li>• Left Ventricle Outflow Tract Mean Velocity (LVOT Trace)</li> <li>• Left Ventricle Outflow Tract Velocity Time Integral (LVOT Trace)</li> <li>• Left Ventricle Ejection Time (LVET)</li> </ul>
984	Mitral valve	<ul style="list-style-type: none"> <li>• E' Early diastolic mitral valve annular velocity (E')</li> <li>• E' Avg Averaged early diastolic mitral valve annular velocity (E' Avg)</li> <li>• E' Lat Early diastolic mitral valve lateral annular velocity (E' Lat)</li> <li>• E' Medial Early diastolic mitral valve medial annular velocity (E' Medial)</li> <li>• E' Sept Early diastolic mitral</li> <li>• Mitral inflow E velocity to E' ratio (E/E')</li> <li>• Mitral inflow E velocity to E' Avg ratio (E/E' Avg)</li> <li>• Mitral inflow E velocity to E' Lat ratio (E/E' Lat)</li> <li>• Medial Mitral inflow E velocity to E' Medial ratio (E/E')</li> <li>• Mitral inflow E velocity to E' Sept ratio (E/E' Sept)</li> <li>• Mitral Valve Regurgitant Flow Acceleration (MR Trace)</li> <li>• Mitral Valve Regurgitant Mean Velocity (MR Trace)</li> </ul>
985	Mitral valve continued	<ul style="list-style-type: none"> <li>• Mitral Regurgitant Mean Pressure Gradient (MR Trace)</li> <li>• Mitral Regurgitant Velocity Time Integral (MR Trace)</li> <li>• Mitral Valve Mean Velocity (MV Trace)</li> <li>• Mitral Valve Velocity Time Integral (MV Trace)</li> <li>• Mitral Valve Mean Pressure Gradient (MV Trace)</li> <li>• Mitral Regurgitant Peak Pressure Gradient (MR Vmax)</li> <li>• Mitral Valve Peak Pressure Gradient (MV Vmax)</li> <li>• Mitral Regurgitant Peak Velocity (MR Vmax)</li> <li>• Mitral Valve Peak Velocity (MV Vmax)</li> <li>• Mitral Valve Velocity Peak A (MV A Velocity)</li> <li>• Mitral Valve Velocity Peak E (MV E Velocity)</li> </ul>

986	Mitral valve continued	<ul style="list-style-type: none"> <li>• Mitral Valve Area According to PHT (MV PHT)</li> <li>• Mitral Valve Flow Deceleration (MV DecT)</li> <li>• Mitral Valve Pressure Half Time (MV PHT)</li> <li>• Mitral Valve Flow Acceleration (MV AccT)</li> <li>• Mitral Valve E-Peak to A-Peak Ratio (A-C and D-E) (MV E/ARatio)</li> <li>• Mitral Valve Acceleration Time</li> <li>• (MV Acc Time)</li> <li>• Mitral Valve Deceleration Time (MV Dec Time)</li> <li>• Mitral Valve Ejection Time ((MVET)</li> <li>• Mitral Valve A-Wave Duration (MV A Dur)</li> <li>• Mitral Valve Time to Peak (MV TTP)</li> <li>• Mitral Valve Acceleration Time/Deceleration Time Ratio (MVAcc/Dec Time)</li> <li>• Stroke Volume Index by Mitral Flow (MVA Planimetry, MVTrace)</li> </ul>
987	Pulmonic Valve	<ul style="list-style-type: none"> <li>• Pulmonic Insufficiency Peak Pressure Gradient (PR Vmax)</li> <li>• Pulmonic Insufficiency End-Diastolic Pressure Gradient (PRTrace)</li> <li>• Pulmonic Valve Peak Pressure Gradient (PV Vmax)</li> <li>• Pulmonic Insufficiency Peak Velocity (PR Vmax)</li> <li>• Pulmonic Insufficiency End-Diastolic Velocity (Prend Vmax)</li> <li>• Pulmonic Valve Peak Velocity (PV Vmax)</li> <li>• Pulmonary Artery Diastolic Pressure (PV Trace)</li> <li>• Pulmonic Insufficiency Mean Pressure Gradient (PR Trace)</li> </ul>
988	Pulmonic valve continued	<ul style="list-style-type: none"> <li>• Pulmonic Valve Mean Pressure Gradient (PV Trace)</li> <li>• Pulmonic Insufficiency Mean Square Root Velocity (PR Trace)</li> <li>• Pulmonic Insufficiency Velocity Time Integral (PR Trace)</li> <li>• Pulmonic Valve Mean Velocity (PV Trace)</li> <li>• Pulmonic Valve Velocity Time Integral (PV Trace)</li> <li>• Pulmonic Insufficiency Pressure Half Time (PR PHT)</li> <li>• Pulmonic Valve Flow Acceleration (PV Acc Time)</li> <li>• Pulmonic Valve Acceleration Time (PV Acc Time)</li> <li>• Pulmonic Valve Ejection Time (PVET)</li> <li>• QRS Complex to End of Envelope (Q-to-PV Close)</li> <li>• Pulmonic Valve Acceleration to Ejection Time Ratio (PV Acc Time, PVET)</li> </ul>
989	Right ventricle	<ul style="list-style-type: none"> <li>• Right Ventricle Outflow Tract Peak Pressure Gradient (RVOT Vmax)</li> <li>• Right Ventricle Outflow Tract Peak Velocity (RVOT Vmax)</li> <li>• Right Ventricle Outflow Tract Velocity Time Integral (RVOTTrace)</li> <li>• Right Ventricle Ejection Time (RV Trace)</li> <li>• Stroke Volume by Pulmonic Flow (RVOT Planimetry, RVOTTrace)</li> <li>• Right Ventricle Stroke Volume Index by Pulmonic Flow (RVOT Planimetry, RVOT Trace)</li> </ul>
990	System	<ul style="list-style-type: none"> <li>• Pulmonary Artery Peak Velocity (PV Vmax)</li> <li>• Pulmonary Vein Velocity Peak A (Reverse) (P Vein A)</li> <li>• Pulmonary Vein Peak Velocity (P Vein D, P Vein S)</li> <li>• Systemic Vein Peak Velocity (PDA Diastolic, PDA Systolic)</li> <li>• Ventricular Septal Defect Peak Velocity (VSD Vmax)</li> <li>• Atrial Septal Defect (ASD Diastolic, ASD Systolic)</li> <li>• Pulmonary Vein A-Wave Duration (P Vein A Dur)</li> <li>• IsoVolumetric Relaxation Time (IVRT)</li> <li>• IsoVolumetric Contraction Time (IVCT)</li> <li>• Pulmonary Vein S/D Ratio (P Vein D, P Vein S)</li> <li>• Ventricular Septal Defect Peak Pressure Gradient (VSD Vmax)</li> <li>• Pulmonic-to-Systemic Flow Ratio (Op/Os)</li> </ul>

991	Tricuspid valve	<ul style="list-style-type: none"> <li>• Tricuspid Regurgitant Peak Pressure Gradient (TR Vmax)</li> <li>• Tricuspid Valve Peak Pressure Gradient (TV Vmax)</li> <li>• Tricuspid Regurgitant Peak Velocity (TR Vmax)</li> <li>• Tricuspid Valve Peak Velocity (TV Vmax)</li> <li>• Tricuspid Valve Velocity Peak A (TV A Velocity)</li> <li>• Tricuspid Valve Velocity Peak E (TV E Velocity)</li> <li>• Tricuspid Regurgitant Mean Pressure Gradient (TR Trace)</li> <li>• Tricuspid Valve Mean Pressure Gradient (TV Trace)</li> </ul>
992	Tricuspid valve continued	<ul style="list-style-type: none"> <li>• Tricuspid Regurgitant Mean Velocity (TR Trace)</li> <li>• Tricuspid Regurgitant Velocity Time Integral (TR Trace)</li> <li>• Tricuspid Valve Mean Velocity (TV Trace)</li> <li>• Tricuspid Valve Velocity Time Integral (TV Trace)</li> <li>• Tricuspid Valve Time to Peak (TV TTP)</li> <li>• Tricuspid Valve Ejection Time (TV Acc/Dec Time)</li> <li>• Tricuspid Valve A-Wave Duration (TV A Dur)</li> <li>• QRS Complex to End of Envelope (Q-TV Close)</li> <li>• Tricuspid Valve Pressure Half Time (TV PHT)</li> <li>• Stroke Volume by Tricuspid Flow (TV Planimetry, TV Trace)</li> <li>• Tricuspid Valve E-Peak to A-Peak Ratio (TV E/A Velocity)</li> </ul>
993	<b>Color Flow Mode measurements</b>	
994	Aortic valve	<ul style="list-style-type: none"> <li>• Proximal Isovelocity Surface Area: Regurgitant Orifice Area (AR Radius)</li> <li>• Proximal Isovelocity Surface Area: Radius of Aliased Point (AR Radius)</li> <li>• Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace)</li> <li>• Proximal Isovelocity Surface Area: Regurgitant Volume Flow (AR Trace)</li> <li>• Proximal Isovelocity Surface Area: Aliased Velocity (AR Vmax)</li> </ul>
995	Mitral valve	<ul style="list-style-type: none"> <li>• Proximal Isovelocity Surface Area: Regurgitant Orifice Area (MR Radius)</li> <li>• Proximal Isovelocity Surface Area: Radius of Aliased Point (MR Radius)</li> <li>• Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace)</li> <li>• Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace)</li> <li>• Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax)</li> </ul>
996	<b>Combination Mode measurements</b>	
997	Aortic valve	<ul style="list-style-type: none"> <li>• Aortic Valve Area (Ao Root Diam, LVOT Vmax, AV Vmax)</li> <li>• Aortic Valve Area by Continuity Equation by Peak Velocity (Ao Root Diam, LVOT Vmax, AV Vmax)</li> <li>• Stroke Volume by Aortic Flow (AVA Planimetry, AV Trace)</li> <li>• Cardiac Output by Aortic Flow (AVA Planimetry, AV Trace, HR)</li> <li>• Aortic Valve Area by Continuity Equation VTI (Ao Root Diam, LVOT Vmax, AV Trace)</li> </ul>
998	Left ventricle	<ul style="list-style-type: none"> <li>• Cardiac Output, Teichholz/Cubic (LVIDd, LVI Ds, HR)</li> <li>• Cardiac Output Two Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)</li> <li>• Cardiac Output Four Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)</li> <li>• Ejection Fraction Two Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs)</li> <li>• Ejection Fraction Four Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs)</li> <li>• Left Ventricle Stroke Volume, Single Plane, Two Chamber/Four Chamber, Area-Length (LVAd, LVAs)</li> </ul>

999	Left ventricle continued	<ul style="list-style-type: none"> <li>• Left Ventricle Stroke Volume, Single Plane, Two Chamber/Four Chamber, Method of Disk (Simpson) (LVIDD, LVIDs, LVAd, LVAs)</li> <li>• Left Ventricle Volume, Two Chamber/Four Chamber, Area-Length (LVAd, LVAs)</li> <li>• Ejection Fraction, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)</li> <li>• Left Ventricle Stroke Volume, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)</li> <li>• Left Ventricle Volume, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)</li> <li>• Left Ventricle Stroke Index, Single Plane, Two Chamber/Four Chamber, Area-Length (LVSD, LVSS and BSA)</li> <li>• Left Ventricle Volume, Single Plane, Two Chamber/Four Chamber, Method of Disk (LVAd, LVAs)</li> <li>• Left Ventricle Volume, Apical View, Long Axis, Method of Disk (LVAd, LVAs)</li> </ul>
1000	Mitral valve	<ul style="list-style-type: none"> <li>• Stroke Volume by Mitral Flow (MVA Planimetry, MV Trace)</li> <li>• Cardiac Output by Mitral Flow (MVA Planimetry, MV Trace, HR)</li> </ul>
1001	Pulmonic valve	<ul style="list-style-type: none"> <li>• Stroke Volume by Pulmonic Flow (PV Planimetry, PV Trace)</li> <li>• Cardiac Output by Pulmonic Flow (PV Planimetry, PV Trace, HR)</li> </ul>
1002	Tricuspid valve	<ul style="list-style-type: none"> <li>• Cardiac Output by Tricuspid Flow (TV Planimetry, TV Trace, HR)</li> </ul>
1003	<b>Combination Mode measurements</b>	
1004	Parameter: lists the mode, the measurement folder and the specific measurement	
1005	Measured Value: Up to six measurement values for each item. Average, maximum, minimum or last	
1006	<b>Generic study in cardiology</b>	
1007	Stroke Volume (SV)	
1008	Cardiac Output (CO)	

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