LOGIQ Totus R5.x HDU

Product Specification Sheet

Last updated on: 2026-04-16

1	**General Specifications**	
2	**Dimensions and Weight** **(Dimensions given with floating keyboard stowed and display tilted for transport)**	
3	Height	1460 – 1860 mm, 57.5 – 73.2"
4	Width	490 mm, 19.3" (Caster), 565 mm, 22.2" (Monitor)
5	Depth	835 mm (32.9")
6	Weight	73 kg (160.9 lbs)
7	**Electrical Power**	
8	Voltage: 100 – 240 Vac	
9	Frequency: 50/60 Hz	
10	Power consumption maximum of 0.9 kVA with peripherals	Off Mode 2W
10		Ready to scan 170W
11	**Console Design**	
12	4 active physical probe ports	
13	Wireless probe connection, capable of connecting Vscan Air wireless and linear probes	
14	Integrated SSD (1 TB)	
15	On-board storage of thermal printer	
16	Integrated speaker	
17	Integrated locking mechanism that provides rolling lock and caster swivel lock	
18	Integrated cable management	
19	Front and rear handles	
20	Easily removable air filters	
21	Windows 10 IoT Enterprise 2021 LTSC	
22	**User Interface**	
23	**Operator Keyboard**	
24	Full-sized, backlit alphanumeric 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	Operator panel front LED bar	
31	**Touch Screen**	
32	14" High-resolution (1920x1080), color, touch, display screen	
33	Interactive dynamic software menu	
34	Brightness adjustment	
35	User-configurable layout	
36	Haptic feedback	
37	**Monitor**	
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: >200,000:1	
48	**System Overview**	
49	**Applications**	

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	Pleural	
62	Intraoperative	
63	**Operating Modes**	
64	B-Mode	
65	M-Mode	
66	Color Flow Mode (CFM) and Microvascular Imaging (MVI)	
69	Power Doppler Imaging (PDI)	
68	B-Flow (Option)	
69	Extended Field of View (LOGIQView)	
70	PW Doppler	
71	CW Doppler (Option)	
72	Volume Modes (3D/4D)(Option)	• 3D Static • 4D Real-time
73	Anatomical M-Mode	
74	Contrast Imaging (Option)	
75	B-Steer+ (Option)	
76	Strain elastography (Option)	
77	Shear wave elastography (Option)	
78	UGAP (Option) - Ultrasound Guided Attenuation Parameter Imaging	
79	**Scanning Methods**	
80	Electronic sector	
81	Electronic convex	
82	Electronic linear	
83	Mechanical volume sweep	
84	**Probe Types**	
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	**System Standard Features**	
94	Advanced user interface with high-resolution 14" display touch panel	
95	Automatic optimization	
96	CrossXBeam™ compounding	
97	Speckle Reduction Imaging (SRI-HD, Advanced SRI Type 1)	
98	Fine angle steer	
99	Radiantflow™	
100	Coded Harmonic Imaging (CHI)	
101	Microvascular Imaging (MVI)	
102	Virtual convex	
103	Patient information database	
104	Image archive on hard drive and removable USB	
105	Unified background export	
106	Advanced 3D	
107	Raw data analysis	
108	Real-time automatic Doppler calculations	
109	OB calculations	
110	Fetal trending	
111	Multi gestational calculations	
112	Hip dysplasia calculations	
113	Gynecological calculations	

114	Vascular calculations
115	Urological calculations
116	Renal calculations
117	Cardiac calculations
118	InSite™ capability
119	On-board electronic documentation
120	Auto Doppler Assist (Auto CF/PW positioning feature)
121	Privacy and security, including user and rights management
122	LOGIQView
123	External USB printer connection
124	Network printer support
125	HDMI output (available for compatible devices)
126	App Launchpad
127	**System Options**
128	DICOM
129	B-Flow
130	Compare Assistant
131	Auto IMT
132	Scan Assistant
133	Breast productivity package
134	Thyroid productivity package
135	OB measure assistant
136	Breast Measure Assistant
137	Color quantification (Quantificative Flow Analysis available with Color Flow/PDI)
138	Strain elastography
139	Elastography Quantification
140	Advanced privacy and security (vulnerability scan)
141	Battery Pack
142	Battery Pack extended
143	UPS (120V/230V)
144	Storage bins
145	Shear wave Elastography
146	Volume Navigation
147	Ultrasound Guided Attenuation Parameter (UGAP)
148	Ultrasound Guided Fat Fraction (UGFF)
149	Hepatic Assistant
150	Coded Contrast Imaging
151	Stress echo
152	Cardiac AFI (Automatic Function Imaging)
153	On-board reporting
154	TVI
155	Wireless LAN
156	Auto EF
157	Auto EF w/o ECG
158	ECG and ECG cables (AHA style, IEC style)
159	CW Doppler
160	Software DVR
161	Tablet tools
162	Digital Expert
163	Breast Assistant, Powered by Koios DS™
164	Thyroid Assistant, Powered by Koios DS™
165	SonoNT SonoIT
166	Advanced SRI HD Type 2
167	RF Data Capture
168	Auto Preset Assistant
169	Auto Abdominal Color Assistant
170	Auto Renal Measure Assistant
171	Raw Data Streaming
172	Real Time 4D
173	TUI
174	VOCAL II
175	VCI-Static
176	STIC
177	OmniView
178	Voice Control
179	HDlive™

180	SonoAVC	
181	B Steer+	
182	Probe Check	
183	eDelivery	
184	ViewPoint™ on LOGIQ	
185	Internal Universal Video Converter	
186	Power supply noise filter (EMI filter)	
187	Ethernet Protection Cable	
188	USB Footswitch 3 Button	
189	Ultrasound Probe Rack (for USA)	
190	TVTR Probe Holder	
191	Small Probe Holder	
192	Probe Cable Hanger	
193	Upper Rear Storage Tray	
194	Rear Basket	
195	Rear Handle Cable Hook	
196	Side Drawer	
197	Gel Warmer	
198	**Peripheral Options**	
199	Integrated Digital B&W thermal Printer	
200	Digital color thermal printer	
201	Foot switch, with programmable functionality	
202	CRF-200U card reader support (for Japan)	
203	USBee1000A barcode reader (for Japan)	
204	LOGIQ smart device apps (Logiq Apps)	• Photo Assistant • Remote Control
205	Barcode reader (LED type)	
206	RFID reader	
207	Vscan Air™ On-System Charger	
208	**Display Modes**	
209	Live and stored display format	• Full size and split screen – both w/ thumbnails. For still and CINE
210	Review image format	• 4x4, and thumbnails. For still and CINE
211	Time line display	• Independent Dual B or CrossXBeam/PW Display • CW • Display formats top/bottom selectable format • Side/side selectable format
212	Virtual convex	
213	**Simultaneous capability**	
214	B or CrossXBeam/PW	
215	B or CrossXBeam/CW (Option)	
216	B or CrossXBeam/CFM or PDI	
217	B/M	
218	B/CrossXBeam	
219	B-Flow/PW	
220	Real-time Triplex Mode	
221	B or CrossXBeam + CFM or PDI/PW	
222	**Selectable alternating modes**	
223	B or CrossXBeam/PW	
224	B or CrossXBeam + CFM (PDI)/PW	
225	B/CW (Option)	
226	**Multi-image (split/quad screen)**	
227	Live and/or frozen	
228	B or CrossXBeam + B or CrossXBeam/CFM or PDI or B-Flow (Option)	
229	PW/M	
230	Independent Cine playback	
231	**Display Annotation**	
232	Patient name: first, last and middle	
233	Patient ID	
234	Alternate patient ID	
235	Age, sex and date of birth	
236	Hospital name	
237	Date format: three types selectable	• MM/DD/YY • DD/MM/YY • YY/MM/DD

238	Time format: 2 types selectable	• 24 hours • 12 hours
239	Gestational age from	• LMP • GA • EDD • BBT
240	Probe name	
241	Map names	
242	Probe orientation	
243	Depth scale marker	
244	Lateral scale marker	
245	Focal zone markers	
246	Image depth	
247	Zoom depth	
248	B-Mode	• Gain • Dynamic range • Imaging frequency • Frame averaging • Gray map • SRI
249	M-Mode	• Gain • Dynamic range • Time scale
250	Doppler Mode	• Gain • Angle • Sample volume depth and width • Wall filter • Velocity and/or frequency scale • Spectrum inversion • Time scale • PRF • Doppler frequency
251	Color Flow Doppler Mode	• Line density • Frame averaging • Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging • Color velocity range and baseline • Color threshold marker • Color gain • PDI • Spectrum inversion • Doppler frequency
252	TGC curve	• Digital TGC with 8 independent controls
253	Acoustic frame rate	
254	CINE gauge, image number/frame number	
255	Body pattern: multiple human and animal types	
256	Application name	
257	Measurement results	
258	Operator message	
259	Displayed acoustic output	• TIS: Thermal Index Soft Tissue • TIC: Thermal Index Cranial (Bone) • TIB: Thermal Index Bone • MI: Mechanical Index
260	% of maximum power output	
261	Biopsy guide line and zone	
262	Heart rate	
263	**General System Parameters**	
264	**System Setup**	
265	Pre-programmable categories	
266	User programmable preset capability	
267	Factory default preset data	
268	Languages: English, French, German, Spanish, Italian, Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian, Bulgarian, Croatian, Czech, Estonian, Hungarian, Japanese, Ukrainian, Korean, Latvian, Indonesian, Lithuanian, Brazilian-Portuguese, Polish, Romanian, Serbian, Turkish, Slovakian, Slovenian, Vietnamese, Kazakhstan	
269	OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO	

270	User defined annotations	
271	Body patterns	
272	Customized comment home position	
273	EZ Imaging: Simplified user interface for high volume workflow	
274	**Complete user manual available on board through Help (F1)**	
275	User manual and service manual are included in USB stick with each system. A printed manual is available upon request.	
276	**CINE Memory/Image Memory**	
277	1 GB of CINE memory	
278	Selectable CINE sequence for CINE review	
279	Prospective CINE mark	
280	Measurements/calculations and annotations on CINE playback	
281	Scrolling timeline memory	
282	Dual Image CINE display	
283	Quad Image CINE display	
284	CINE gauge and CINE image number display	
285	CINE review loop	
286	CINE review speed	
287	**Image Storage**	
288	On-board database of patient information from past exams	
289	Storage formats: DICOM	• Compressed/uncompressed • Single/multi-frame • Enhanced (3D/4D) • With/without raw data
290	Exportable DICOM viewer	
291	Export BMP, JPEG, JPEG 2000, PNG, AVI, MP4, WMV formats	
292	Storage devices:	• USB memory stick: 64 MB to 64 GB (for exporting individual images/clips) • Hard drive image storage: ~760 GB
293	Compare previous exam images with current exam	
294	Reload of archived date sets	
295	B-mode image storage: 6781 sec maximum	
296	M-mode image storage: 6781 sec maximum	
297	Color-mode image storage: 9224 sec maximum	
298	3D/4D imaging: 142 volume per sec maximum	
299	**Connectivity**	
300	Ethernet network connection	
301	Wireless LAN 802.11ac/a/b/g/n (Option)	
302	DICOM 3.0	• Verify • Print • Store • Modality worklist • Storage commitment • Modality performed procedure step (MPPS) • Media exchange • Off network/mobile storage queue • Query/retrieve
303	Public SR template	
304	Structured Reporting – compatible with vascular and OB, cardiac and breast standard	
305	InSite capability	
306	Advanced privacy and security (Option)	
307	**Physiological input panel (Option)**	
308	Physiological input	• ECG, 1 channel • Dual R-Trigger • Pre-settable ECG R delay time • Pre-settable ECG position • Adjustable ECG gain control
309	Automatic heart rate display	
310	**Report writer (Option)**	
311	On-board reporting package automates report writing	
312	Formats various exam results into a report suitable for printing or reviewing on a standard PC	
313	Exam results include patient info, exam info, measurements, calculations, images, and comments Standard templates provided	
314	Customizable templates	
315	**Scanning Parameters**	
316	cSound™ Imageformer: Infinite number of effective channels including more than 10 focal points in every image	

317	Maximum Frame Rate: 7,764 Hz maximum	
318	Displayed imaging depth: 0 – 100 cm	
319	Minimum depth of field: 0 – 2 cm (zoom) (probe dependent)	
320	Maximum depth of field: 0 – 100 cm (probe dependent)	
321	Continuous dynamic receive focus/Continuous dynamic receive aperture	
322	Adjustable dynamic range, inifinite upper level	
323	Composite dynamic range, Max 431 dB	
324	Adjustable field of view (FOV)	
325	System Frequency Range: 0.7-24 MHz, Unrelated with probe bandwidth, only pure system bandwidth is ranging in 1 - 25 MHz	
326	Image reverse: right/left	
327	Image rotation of 0°, 90°, 180°, 270°	
328	PW PRF: 0.4-35.5 kHz maximum	
329	Doppler Velocity: 2,893 cm/s maximum	
330	8 bits stored per color	
331	256 shades of gray	
332	256 color tones	
333	M-Mode simultaneous: 1958 Hz maximum	
334	Color Doppler Frame Rate: 640 Hz Maximum	
335	B Flow Frame Rate: 1033Hz Maximum	
336	CW PRF: 65.97 KHz Maximum	
337	**Digital B-Mode**	
338	Adjustable	• Acoustic power: 2-100% • Gain: 0-90 dB, 1 dB/step • Dynamic range: 36 - 96 dB / 16 steps • Frame averaging: 8 steps • Gray scale map: 11 types • Frequency: up to 7 selectable depending on the probe • Speed of sound (application dependent) • Framerate: 7,764 Hz (Max) • Scanning size (FOV or Angle) – Depending on the probe, see probe specifications • CrossXBeam: up to 9 angles selectable • B colorization • Rejection: 6 steps • Suppression: 6 steps • SRI-HD: up to 6 selections
339	**Digital M-Mode**	
340	Adjustable	• Acoustic power: 20-100% • Gain: -60 - 30 dB • Dynamic range • Gray scale map: 9 types • Frequency • Sweep speed: 0-7, 8 steps • M colorization: 9 types • M display format: 6 types • Rejection: 6 steps
341	**Anatomical M-Mode**	
342	M-mode cursor adjustable at any plane	
343	Can be activated from a CINE loop from a live or stored image	
344	M & A capability	
345	Available with Color Flow Mode	
346	**Digital Spectral Doppler Mode**	

347	Adjustable	• Acoustic power: 1-100% • Gain: 0 - 85 dB, 1 dB/ step • Dynamic range: • Gray scale map: 8 types • Transmit frequency: up to 8 selectable depending on the probe • Wall filter: 5.5 - 5000 Hz/ 27 steps • PW colorization: 6 types • Velocity scale range: 24 steps • Max. Velocity: 2893 cm/s • Sweep speed: 0 - 7 / 8 steps • Sample volume length: 0.5 - 20 mm depending on the probe • Angle correction: -90 to 90 degrees, 1 degree/ step • Steered linear: -20 - 20/ 7 steps • Spectrum inversion: on/off • Trace method: 3 steps • Baseline shift: 5-95 %/ 11 steps • Doppler auto trace: 3 steps • Time resolution • Compression: 0.5 - 2.4 dB / 9 steps • Trace direction: 3 steps • Trace sensitivity: 21 steps • Max frame rate in Duplex: 1050 Hz • PRFs: 35.5 kHz
348	**Digital Color Flow Mode**	
349	Adjustable	• Acoustic power: 5-100% • Color maps, including velocity-variance maps: 23 types depending on the probe and preset • Gain: -20 to 30 dB / 101 steps • Velocity scale range: 2 - 150 cm/s/ 21 steps depending on the probe and preset • Wall filter: 0 - 3 / 4 steps • Packet size: 5, 6, 7, 8, 10, 12, 14, 16, 20, 24 / 10 steps • Line density: 5 steps • Spatial filter: 6 steps • Steering angle: -20, -15, -10, 0, 10, 15, 20 degree • Baseline shift: 0 - 100 % / 11 steps • Frame average: 0 - 10 / 11 steps • Threshold: 0 - 100 % / 11 steps • Max. Frame Rate: 640 Hz • Max Frame Rate in Triplex: 139 Hz • PRFs: 17.9 kHz • Auto ROI placement and steering on linear • Accumulation mode: 8 steps • Flash suppression: 5 steps • Shortcuts
350	**Digital Power Doppler Imaging**	
351	Adjustable	• Acoustic power: 5-100% • Color maps: 17 types • Gain: -20 to 30 dB / 101 steps • Velocity scale range: 2 - 150 cm/s/ 21 steps • Wall filter: 0 - 3 / 4 steps • Packet size: 5, 6, 7, 8, 10, 12, 14, 16, 20, 24 / 10 steps depending on the probe and preset • Max. Frame Rate: 640Hz • PRFs: 17.9 kHz • Line density: 5 steps • Spatial filter: 6 steps • Steering angle: -20, -15, -10, 0, 10, 15, 20 degree • Frame average: 0 - 10 / 11 steps • Threshold: 0 - 100 % / 11 steps • Accumulation mode: 8 steps • Flash suppression: 5 steps • Shortcuts
352	**Continuous Wave Doppler (Option)**	
353	Available on M5Sc-D, 6S-D, P2D, P6D, 12S-D and 6Tc-RS probes	
354	Steerable CW mode included	

355	Adjustable	• Acoustic power: 1-100% • Gain: 0-85dB, 1dB/step • Dynamic range • Gray scale map: 8 types • Transmit frequency up to 3 selectable depending on the probe • Wall filter: 5.5-5000 Hz/ 27 steps, depending on the probe • CW colorization: 6 types • Velocity scale range: 10-558 cm/s/ 24 steps, depending on the probe • Max velocity: 2120 cm/s • PRFs: 65.97 kHz • Sweep speed: 8 steps • Angle correction: ± 90 degrees, 1 degree / step • Spectrum inversion: On/Off • Trace method • Baseline shift: 5-95%/ 11 steps • Doppler auto trace • Compression: 0.5-2.4 dB/ 9 steps • Trace direction: 3 steps • Trace sensitivity: 21 steps
356	**Automatic Optimization**	
357	Optimize B-Mode image to help improve contrast resolution with one button press	
358	Selectable amount of contrast resolution improvement (low, medium, high)	
359	CTO (Continuous Tissue Optimization) – continuously adjusts B-Mode axial and lateral gain uniformity and overall gain level suppressing the noise	
360	Auto-spectral optimize – adjusts baseline, invert, PRF (on live image), and angle correction with one button press	
361	Auto CF and PW positioning – adjusts ROI position, sample volume position and steering with one button press	
362	**Coded Harmonic Imaging (Option)**	
363	Available on all 2D and 4D probes	
364	**B-Flow (Option)**	
365	Available on the following probes: C1-6-D, C1-6VN-D, C2-7-D, C2-7VN-D, C2-9-D, C3-10-D, L3-12-D, M5Sc-D, ML6-15-D, L6-24-D, 9L-D	
366	Background: 4 steps	
367	Sensitivity/PRI: 1-40/ 19 steps	
368	Acoustic power	
369	Frequency: up to 5 selectable	
370	Line density: 5 steps	
371	Frame average: 7 steps	
372	Gray scale map: 9 types	
373	Tint map: 9 types	
374	Dynamic range: 36-96 dB/ 16 steps	
375	Rejection: 5 steps	
376	Gain: 0-90 dB, 1 dB/ step	
377	Suppression	
378	SRI: 0-4/ 5 steps	
379	Accumulation: 8 steps	
380	Visualization	
381	**Radiant*flow*™**	
382	Easy, fast visualization of tiny vessels, displaying as a 3D effect	
383	Available in Color Doppler, Power Doppler and MVI	
384	**B Steer+ (Option)**	
385	Available on the following probes: C1-6-D, L3-12-D, ML6-15-D, L6-24-D, 9L-D, L4-20t-D and L3-9i-D	
386	**Coded contrast imaging (Option)**	
387	Available on the following probes: C1-6-D, C1-6VN-D, C2-7-D, C2-7VN-D, C2-9-D, C3-10-D, IC5-9-D, L3-12-D, L3-9i-D, M5Sc-D, ML6-15-D, RAB6-D, RIC5-9-D, 9L-D	
388	2 contrast timers	
389	Timed updates: 0.05 – 10 seconds	
390	Accumulation mode, seven levels	
391	Maximum enhance mode	
392	Flash	
393	Time intensity curve (TIC) analysis	
394	Parametric imaging	
395	Ability to save still image during clip acquisition	
396	The LOGIQ Totus 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.	
397	**Microvascular Imaging (MVI)**	

398	Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D, 9L-D, L3-12-D, ML6-15-D, L4-20t-D, L6-24-D	
399	**LOGIQView**	
400	Extended field of view Imaging	
401	Up to 160 cm (63") scan length	
402	Available on all 2D imaging probes	
403	For use in B-Mode	
404	CrossXBeam is available on linear probes	
405	Auto detection of scan direction	
406	Pre-or post-process zoom	
407	Rotation	
408	Auto best fit on monitor	
409	Measurements in B-Mode	
410	**3D**	
411	Allows unlimited rotation and planar translation	
412	3D reconstruction from CINE sweep	
413	Easy 3D available on all probes	
414	**Advanced 3D**	
415	Acquisition of color data	
416	Automatic rendering	
417	3D landscape technology	
418	3D movie	
419	**Real-time 4D (Option)**	
420	Acquisition modes	• Real Time 4D • Spatio-Temporal Image Correlation (Option) • Static 3D
421	Visualization modes	• 3D rendering (diverse surface and intensity projection modes) • Sectional planes (3 section planes perpendicular to each other) • Omniview • Volume contrast imaging – Static • Volume contrast imaging – Omniview • Tomographic ultrasound imaging • Volume Analyses – VOCAL: semi-auto/manual segmentation tool (segmentation using touch screen), – 3D Static only – Threshold Volume: measure volume below and above a threshold
422	Render mode	• Surface texture, surface smooth, max-, min- and X-ray (average intensity projection), mix mode of two render modes • HD*live*™
423	SonoRender*live*	
424	Curved 3 point Render start	
425	3D Movie	
426	Scalpel: 3D cut tool	
427	Display format:	• Quad: A-/B-/C-Plane/3D • Dual: A-Plane/3D • Single: 3D or A- or B- or C-Plane
428	Automated Volume Calculation – VOCAL II	
429	Betaview	
430	Maximum Volume Rate (3D/4D): 142 volume per sec maximum	
431	**Volume navigation (Option)**	
432	Available on the following probes: C1-6VN-D, C2-7VN-D, C3-10-D, ML6-15-D, IC5-9-D, M5Sc-D, 9L-D	
433	Sensor-based acquisition	
434	Position markers	
435	Needle tip tracking	
436	Virtual tracking	
437	Auto image registration	
438	Tru3D feature includes	Display of data in: main-, parallel-, angular-mode
439	Render modes: gray surface, texture, min-, max-, average-intensity	
440	Measurements: distance, angle, area, volume	
441	3D Movie	
442	**Scan assistant (Option)**	
443	Factory programs	
444	User-defined programs	
445	Steps include image annotations, mode transitions, basic imaging controls and measurement initiation	

446	**Compare Assistant (Option)**
447	Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning
448	**Breast productivity package**
449	Auto measurement
450	Worksheet summary includes measurements and locations for lesions and lymph nodes
451	Feature assessment
452	BI-RADS™ assessment
453	User editable
454	**Thyroid productivity package (Option)**
455	Auto measurement
456	Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes
457	Feature assessment
458	TI-RADS™ assessment
459	User editable
460	**Start Assistant**
461	Automatically select category, probe, preset, or scan assistant from worklist exam description
462	Learn the category, probe, preset, and scan assistant based on exam description
463	**Shear Wave Elastography (Option)**
464	Available on the following probes: C1-6-D, C1-6VN-D, IC5-9-D, L3-12D, ML6-15-D and 9L-D
465	User programmable measurement display in kPa and meters per second • Measurement range in m/s (Min. – Max.): 0 – 15 m/s • Measurement range in kPa (Min. – Max.): 0 – 675 kPa
466	Single and dual view display
467	Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate
468	**Strain elastography (Option)**
469	Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D, IC5-9-D, ML6-15-D, L3-12-D, L3-9i-D, L6-24-D, 9L-D
470	Relative analysis tool • E index: 9 maximum • E ratio: 8 maximum
471	Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate, Thyroid
472	**UGAP (Option)**
473	Available on the following probes: C1-6-D, C1-6VN-D
474	Measures liver attenuation* (attenuation coefficient [dB/cm/MHz]) by auto measure algorithm with reference B-mode • 0.1 db/cm/MHz to 2.0 db/cm/MHz
475	Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)
476	**Quantitative flow analysis (Option)**
477	Available in color and power Doppler
478	**UGFF (Option)**
479	Available on the following probes: C1-6-D, C1-6VN-D
480	Measures ultrasound guided fat fraction derived from multiple parameters including (attenuation coefficient [dB/cm/MHz], signal to noise ratio (SNR), and Integrated backscatter coefficient)
481	UGAP attenuation imaging, simple and 2D color map available
482	**Quantitative flow analysis (Option)**
483	Available in color and power Doppler
484	**TVI (Option)**
485	Available on the following probes: M5Sc-D, 6S-D, 12S-D, 6Tc-RS probes
486	Myocardial Doppler imaging with color overlay on tissue image
487	Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information
488	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane
489	Q-Analysis: multiple time-motion trace display from selected points in the myocardium
490	**Stress echo (Option)**
491	Advanced and flexible stress echo examination capabilities
492	Provides exercise and pharmacological protocol templates
493	6 default templates
494	Template editor for user configuration of existing templates or creation of new templates
495	Reference scan display during acquisition for stress level comparison (dual screen)
496	Baseline level/previous level selectable
497	Raw data continuous capture
498	Over 100 sec. available
499	Wall motion scoring (bulls-eye and segmental)
500	Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level
501	**Auto EF (Option)**
502	Allows semi-automatic measurement of the global EF (Ejection Fraction)

503	User editable	
504	**Auto EF w/o ECG (Option)**	
505	Allows semi-automatic measurement of the global EF (Ejection Fraction) without the use of ECG signal	
506	User editable	
507	**Cardiac AFI (Option)**	
508	Allows assessment of the complete left ventricle with all segments at a glance by combining three longitudinal views into one comprehensive bulls-eye view	
509	2D strain based data moves into clinical practice	
510	**App Launchpad**	
511	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	
512	Only validated and released Apps are supported	
513	3rd-party Apps can be purchased through an AppStore on a GE Healthcare (GEHC) website	
514	Consult with a GE Healthcare (GEHC) representative for more details	
515	**Raw Data Streaming (Option)**	
516	Provides streaming of raw data out to 3rd-party devices designed to process this data	
517	**Virtual Convex**	
518	Provides a convex field of view	
519	Compatible with CrossXBeam	
520	Available on all linear and sector probes	
521	**SRI-HD and Advanced SRI**	
522	Speckle reduction imaging	
523	Provides multiple levels of speckle reduction	
524	Compatible with side-by-side DualView display	
525	Advanced SRI HD: two types selectable	• Type 1 – Compatible with all linear, convex and sector probes • Type 2 (Option) – Compatible with OB/GYN application
526	**CrossXBeam**	
527	Provides variable angle spatial compounding	
528	Live side-by-side DualView display	
529	Compatible with	• Color mode • PW • SRI • Coded harmonic imaging • Virtual convex
530	Available on all curved and linear probes	
531	**Controls available while “live”**	
532	Magnification Zoom: Magnifies the entire image on the screen without zoom ROI, 20x maximum zoom factor	
533	Pan Zoom: Magnifies the display of the data within the ROI	
534	HD Zoom: Magnifies the image within the zoom ROI, with higher spatial resolution than original images	
535	B/M/CrossXBeam-Mode	• Gain • TGC • Dynamic range • Acoustic output • Framerate control • Sweep speed for M-Mode • CrossXBeam angle
536	PW-Mode	• Gain • Dynamic range • Acoustic output • Transmission frequency • PRF • Wall filter • Spectral averaging • Sample volume gate: length, depth • Velocity scale
537	Color Flow-Mode	• CFM gain • CFM velocity range • Acoustic output • Wall echo filter • Packet size • Frame rate control • CFM spatial filter • CFM frame averaging • CFM line resolution • Frequency/velocity baseline shift

538	**Controls available on “freeze” or recall**	
539	Automatic optimization	
540	SRI	
541	CrossXBeam – display non-compounded and compounded image simultaneously in split screen	
542	3D reconstruction from a stored CINE loop	
543	B/M/CrossXBeam-Mode	• Gray map optimization • TGC • Colorized B and M • Frame average (loops only) • Dynamic range
544	Anatomical M-Mode	
545	Magnification zoom	
546	Pan zoom	
547	Maximum read zoom to 8x	
548	Baseline shift	
549	Sweep speed	
550	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
551	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
552	Anatomical M-Mode on cine loop	
553	4D	• Gray map, colorize • Post gain • Change display – single, dual, quad sectional or rendered
554	**Measurements/Calculations**	
555	**General B-Mode**	
556	Depth and distance	
557	Circumference (ellipse/trace)	
558	Area (ellipse/trace)	
559	Volume (ellipsoid)	
560	% Stenosis (area or diameter)	
561	Angle between two lines	
562	Dual B-mode capability	
563	**General M-Mode**	
564	M-Depth	
565	Distance	
566	Time	
567	Slope	
568	Heart rate	
569	**General Doppler measurements/calculations**	
570	Velocity	
571	Time	
572	A/B ratio (velocities/frequency ratio)	
573	PS (Peak Systole)	
574	ED (End Diastole)	
575	PS/ED (PS/ED Ratio)	
576	ED/PS (ED/PS Ratio)	
577	AT (Acceleration Time)	

578	ACCEL (Acceleration)	
579	TAMAX (Time Averaged Maximum Velocity)	
580	Volume flow (TAMEAN and vessel area)	
581	Heart rate	
582	PI (Pulsatility Index)	
583	RI (Resistivity Index)	
584	**Real-time Doppler Auto Measurements/Calculations**	
585	PS (Peak Systole)	
586	ED (End Diastole)	
587	MD (Minimum Diastole)	
588	PI (Pulsatility Index)	
589	RI (Resistivity Index)	
590	AT (Acceleration Time)	
591	ACC (Acceleration)	
592	PS/ED (PS/ED Ratio)	
593	ED/PS (ED/PS Ratio)	
594	HR (Heart Rate)	
595	TAMAX (Time Averaged Maximum velocity)	
596	PVAL (Peak Velocity value)	
597	Volume flow (TAMEAN and vessel area)	
598	**Abdominal measurements/calculations**	
599	Shear Elasto velocity	
600	Shear Elasto stiffness	
601	Attenuation rate	
602	Attenuation coefficient	
603	Summary reports	
604	**Small Parts measurements/calculations**	
605	Breast Lesion	
606	Thyroid	
607	Parathyroid	
608	Lymph Node	
609	Nodule	
610	Isthmus AP	
611	Shear Elasto velocity	
612	Shear Elasto stiffness	
613	Summary reports	
614	**OB measurements/calculations**	
615	Gestational age by	• GS (Gestational Sac) • CRL (Crown Rump Length) • FL (Femur Length) • BPD (Biparietal Diameter) • AC (Abdominal Circumference) • HC (Head Circumference) • APTD x TTD (Anterior/Posterior Trunk Diameter by Transverse Trunk Diameter) • FTA (Fetal Trunk Cross-sectional Area) • HL (Humerus Length) • BD (Binocular Distance) • FT (Foot Length) • OFD (Occipital Frontal Diameter) • TAD (Transverse Abdominal Diameter) • TCD (Transverse Cerebellum Diameter) • THD (Thorax Transverse Diameter) • TIB (Tibia Length) • ULNA (Ulna Length) • OOD (Outer Orbital Diameter) • IOD (Inner Orbital Diameter) • FIB (Fibula length) • Radius (Radius length) • LV (Lateral Ventricle width) (= SL)

616	Estimated Fetal Weight (EFW) by:	• AC, BPD • AC, BPD, FL • AC, BPD, FL, HC • AC, FL • AC, FL, HC • AC, HC • BPD, APTD, TTD, FL • BPD, APTD, TTD, SL
617	Fetal graphical trending	
618	Growth percentiles	
619	Multi-gestational calculations (4)	
620	Fetal qualitative description (anatomical survey)	
621	Fetal environmental description (biophysical profile)	
622	Programmable OB tables	
623	Over 20 selectable OB calculations	
624	Expanded worksheets	
625	Summary Reports	
626	**OB Calculations and ratios**	
627	FL/BPD	
628	FL/AC	
629	FL/HC	
630	HC/AC	
631	CI (Cephalic Index)	
632	AFI (Amniotic Fluid Index)	
633	CTAR (Cardio-Thoracic Area Ratio)	
634	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	
635	**OB measure assistant (option)**	
636	Allows automatic measurement of BPD, HC, FL and AC	
637	User editable	
638	**SonoNT and SonoIT (option)**	
639	SonoNT measures the contour detection of the NT border	
640	SonoIT is a system supported measurement for Intracranial Translucency	
641	**GYN measurements/calculations**	
642	Right ovary length, width, height	
643	Left ovary length, width, height	
644	Uterus length, width, height	
645	Cervix length, trace	
646	Ovarian volume	
647	ENDO (Endometrial thickness)	
648	Ovarian RI	
649	Uterine RI	
650	Follicular measurements	
651	Fibroid measurements	
652	Qualitative description (anatomical survey)	
653	Mean Uterine Artery (Gomez) Doppler Measurement	
654	Summary reports	
655	**Vascular measurements/calculations**	
656	SYS DCCA (Systolic Distal Common Carotid Artery)	
657	DIAS DCCA (Diastolic Distal Common Carotid Artery)	
658	SYS MCCA (Systolic Mid Common Carotid Artery)	
659	DIAS MCCA (Diastolic Mid Common Carotid Artery)	
660	SYS PCCA (Systolic Proximal Common Carotid Artery)	
661	DIAS PCCA (Diastolic Proximal Common Carotid Artery)	
662	SYS DICA (Systolic Distal Internal Carotid Artery)	
663	DIAS DICA (Systolic Distal Internal Carotid Artery)	
664	SYS MICA (Systolic Mid Internal Carotid Artery)	
665	DIAS MICA (Diastolic Mid Internal Carotid Artery)	
666	SYS PICA (Systolic Proximal Internal Carotid Artery)	
667	DIAS PICA (Diastolic Proximal Internal Carotid Artery)	
668	SYS DECA (Systolic Distal External Carotid Artery)	
669	DIAS DECA (Diastolic Distal External Carotid Artery)	
670	SYS PECA (Systolic Proximal External Carotid Artery)	

671	DIAS PECA (Diastolic Proximal External Carotid Artery)	
672	VERT (Systolic Vertebral Velocity)	
673	SUBCLAV (Systolic Subclavian Velocity)	
674	Auto IMT (Option)	
675	Summary reports	
676	**Urological measurements/calculations**	
677	Bladder volume	
678	Prostate volume	
679	Left/right renal volume	
680	Generic volume	
681	Post-void bladder volume	
682	Pelvic floor measurements	
683	Summary reports	
684	**TCD measurements/calculations**	
685	MCA, ACA, PCA, ICA	
686	AComA, PCom A	
687	Vert	
688	Basilar	
689	MCA/ICA Ratio	
690	Summary reports	
691	**Pediatric and Neonatal measurements/calculations**	
692	Hip angle	
693	Hip orientation	
694	Summary reports	
695	**Probes (All Options)**	
696	**XDClear Technology includes Single Crystal, Acoustic Amplifier and Cool Stack Technologies**	
697	**6S-D, sector probe**	
698	Applications	Pediatric cardiac, pediatric abdomen
699	Bandwidth	2.0 – 8.0 MHz
700	Number of elements	96
701	Field of view (max.)	115°
702	Physical foot print	15 x 9 mm
703	B-Mode frequency	4.0, 4.2, 5.0, 5.5, 6.5 MHz
704	Harmonic frequency	4.7, 4.9, 5.3, 5.7, 6.1, 6.3 MHz
705	PW Doppler frequency	2.8, 3.1, 3.6, 4.2 MHz
706	Color Doppler frequency	2.7, 3.1, 4.2, 5.0 MHz
707	**12S-D, sector probe**	
708	Applications	Pediatrics, pediatric cardiac, neonatal cardiac
709	Bandwidth	4.0 – 12.0 MHz
710	Number of elements	96
711	Field of view (max.)	90°
712	Physical foot print	9.3 x 5.5 mm
713	B-Mode frequency	6.0, 7.0, 8.0, 9.0 MHz
714	Harmonic frequency	6.0, 7.0, 8.0, 9.0 MHz
715	PW Doppler frequency	5.0, 6.3, 8.3 MHz
716	Color Doppler frequency	4.9, 5.4, 6.3, 7.3 MHz
717	**C1-6-D, XDclear convex probe**	
718	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal
719	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4917VB)
720	Bandwidth	1.0 – 6.0 MHz
721	Number of elements	192
722	Field of view (max.)	90°
723	Physical foot print	67 x 11 mm
724	B-Mode frequency	2.0, 2.5, 3.0, 4.0 MHz
725	Harmonic frequency	1.5, 2.5, 3.0, 4.5, 6.0, 6.5 MHz
726	PW Doppler frequency	1.7, 2.1, 2.5, 3.6 MHz
727	Color Doppler frequency	1.8, 2.1, 2.5, 2.8, 3.0 MHz
728	**C1-6VN-D, VNav inside XDclear convex probe**	
729	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
730	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal
731	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4917VB)
732	Bandwidth	1.0 – 6.0 MHz
733	Number of elements	192
734	Field of view (max.)	90°
735	Physical foot print	67 x 11 mm

736	B-Mode frequency	2.0, 2.5, 3.0, 4.0 MHz
737	Harmonic frequency	1.5, 2.5, 3.0, 4.5, 6.0, 6.5 MHz
738	PW Doppler frequency	1.7, 2.1, 2.5, 3.6 MHz
739	Color Doppler frequency	1.8, 2.1, 2.5, 2.8, 3.0 MHz
740	**C2-9-D, XDclear convex probe**	
741	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal
742	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BA)
743	Bandwidth	2.0 – 9.0 MHz
744	Number of elements	192
745	Field of view (max.)	90°
746	Physical foot print	52 x 9 mm
747	B-Mode frequency	3.0, 4.5, 6.0, 7.0 MHz
748	Harmonic frequency	2.5, 3.5, 5.0, 7.0, 9.0 MHz
749	PW Doppler frequency	2.5, 3.1, 3.6, 4.2, 5.0, 6.3 MHz
750	Color Doppler frequency	3.1, 4.2, 4.6, 5.4 MHz
751	**C2-9VN-D, VNav inside XDclear convex probe**	
752	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
753	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal
754	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BA)
755	Bandwidth	2.0 – 9.0 MHz
756	Number of elements	192
757	Field of view (max.)	90°
758	Physical foot print	52 x 9 mm
759	B-Mode frequency	3.0, 4.5, 6.0, 7.0 MHz
760	Harmonic frequency	2.5, 3.5, 5.0, 7.0, 9.0 MHz
761	PW Doppler frequency	2.5, 3.1, 3.6, 4.2, 5.0, 6.3 MHz
762	Color Doppler frequency	3.1, 4.2, 4.6, 5.4 MHz
763	**C2-7-D, micro convex biopsy probe**	
764	Applications	Abdomen, pediatric
765	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40482LK), Multi-Angle, reusable stainless bracket (H40482LL)
766	Bandwidth	1.0 – 6.0 MHz
767	Number of elements	144
768	Field of view (max.)	110°
769	Physical foot print	31 x 10 mm
770	B-Mode frequency	2.5, 4.0, 6.0 MHz
771	Harmonic frequency	3.0, 4.0, 5.0, 6.0 MHz
772	PW Doppler frequency	1.8, 2.1, 2.5, 3.1 MHz
773	Color Doppler frequency	2.1, 2.4, 3.1, 3.7 MHz
774	**C2-7VN-D, VNav inside micro convex biopsy probe**	
775	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
776	Applications	Abdomen, pediatric
777	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40482LK), Multi-Angle, reusable stainless bracket (H40482LL)
778	Bandwidth	1.0 – 6.0 MHz
779	Number of elements	144
780	Field of view (max.)	110°
781	Physical foot print	31 x 10 mm
782	B-Mode frequency	2.5, 4.0, 6.0 MHz
783	Harmonic frequency	3.0, 4.0, 5.0, 6.0 MHz
784	PW Doppler frequency	1.8, 2.1, 2.5, 3.1 MHz
785	Color Doppler frequency	2.1, 2.4, 3.1, 3.7 MHz
786	**C3-10-D, XDclear micro convex probe**	
787	Applications	Abdomen, neonatal, pediatric, peripheral vascular, neonatal transcranial, small parts
788	Bandwidth	2.0 – 11.0 MHz
789	Number of elements	192
790	Field of view (max.)	95°
791	Physical foot print	26 x 5 mm
792	B-Mode frequency	4.0, 6.0, 8.0 MHz
793	Harmonic frequency	6.0, 8.0, 10.0 MHz
794	PW Doppler frequency	3.1, 4.2, 6.3, 7.1 MHz
795	Color Doppler frequency	3.9, 5.3, 6.6 MHz
796	**IC5-9-D, micro convex probe**	

797	Applications	OB/GYN, urology
798	Biopsy guide	Single angle, disposable with a disposable bracket (E8385MJ) or reusable bracket (H40412LN)
799	Bandwidth	3.0 – 10.0 MHz
800	Number of elements	192
801	Field of view (max.)	179°
802	Physical foot print	26 x 6 mm
803	B-Mode frequency	3.9, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0 MHz
804	Harmonic frequency	5.0, 7.0, 9.0 MHz
805	PW Doppler frequency	3.6, 4.2, 5.0 MHz
806	Color Doppler frequency	4.6, 5.9, 6.7 MHz
807	**9L-D, linear probe**	
808	Applications	Peripheral vascular, small parts, general musculoskeletal, superficial musculoskeletal, pediatric, abdomen, OB/GYN, neonatal, neonatal transcranial
809	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4906BK)
810	Bandwidth	2.0 – 8.0 MHz
811	Number of elements	192
812	Field of view (max.)	44 mm
813	Physical foot print	44 x 6 mm
814	B-Mode frequency	4.0, 4.5, 5.0, 6.0, 7.0 MHz
815	Harmonic frequency	5.0, 6.0, 7.0, 8.0, 9.0, 9.4 MHz
816	PW Doppler frequency	3.6, 4.2, 5.0, 5.6, 6.3 MHz
817	Color Doppler frequency	3.5, 4.5, 5.1, 5.8 MHz
818	**L3-12-D, linear probe**	
819	Applications	General musculoskeletal, superficial musculoskeletal, small parts, vascular, neonatal, neonatal transcranial, pediatrics, abdomen, OB
820	Biopsy guide	Multi-angle, disposable with a reusable bracket (H48302AA)
821	Bandwidth	3.0 – 11.0 MHz
822	Number of elements	256
823	Field of view (max.)	51 mm
824	Physical foot print	51 x 4 mm
825	B-Mode frequency	6.0, 8.0, 10.0, 12.0 MHz
826	Harmonic frequency	4.0, 6.0, 8.0, 10.0, 12.0 MHz
827	PW Doppler frequency	4.2, 5.0, 6.3, 8.3 MHz
828	Color Doppler frequency	4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz
829	**L6-24-D, linear probe**	
830	Applications	General musculoskeletal, superficial musculoskeletal, small parts, neonatal abdomen, neonatal transcranial
831	Bandwidth	6.0 – 20.0 MHz
832	Number of elements	192
833	Field of view (max.)	26 mm
834	Physical foot print	32 x 8 mm
835	B-Mode frequency	12.0, 16.0, 21.0 MHz
836	Harmonic frequency	12.0, 18.0, 20.0, 24.0 MHz
837	PW Doppler frequency	8.3, 10.0, 12.5 MHz
838	Color Doppler frequency	9.2, 11.2, 12.2 MHz
839	**L4-20t-D, linear probe**	
840	Applications	General musculoskeletal,superficial musculoskeletal, vascular
841	Biopsy guide	Multi-angle, disposable with a reusable bracket (H45201BLF)
842	Bandwidth	4.0 - 15.0 MHz
843	Number of elements	256
844	Field of view (max.)	39 mm
845	Physical foot print	48 x 12 mm
846	B-Mode frequency	10, 14, 18 MHz
847	Harmonic frequency	10, 13, 16, 20 MHz
848	PW Doppler frequency	5.6, 7.1, 8.3, 10.0 MHz
849	Color Doppler frequency	5.7, 6.3, 6.6, 6.8, 7.5, 8.0, 9.0, 9.5, 10.0 MHz
850	**L3-9i-D, linear probe**	
851	Applications	Abdomen, intraoperative
852	Bandwidth	2.0 – 10.0 MHz
853	Number of elements	192
854	Field of view (max.)	38 mm
855	Physical foot print	38 x 5 mm
856	B-Mode frequency	3.0, 5.0, 7.0 MHz

857	Harmonic frequency	3.0, 6.0, 9.0 MHz
858	PW Doppler frequency	3.1, 3.6, 5.0, 6.3, 7.1 MHz
859	Color Doppler frequency	2.6, 2.9, 4.1, 5.4 MHz
860	**M5Sc-D, XDclear sector probe**	
861	Applications	Adult cardiac, pediatric cardiac, adult cephalic, abdominal
862	Biopsy guide	Multi-angle, disposable with a reusable bracket (H45561FC)
863	Bandwidth	1.0 – 5.0 MHz
864	Number of elements	240
865	Field of view (max.)	120°
866	Physical foot print	28 x 17 mm
867	B-Mode frequency	2.0, 2.5, 3.5, 4.5 MHz
868	Harmonic frequency	2.4, 3.0, 3.2, 3.3, 3.7, 4.0, 4.5 MHz
869	PW Doppler frequency	1.6, 1.7, 1.8, 1.9, 2.1, 2.5, 3.1, 3.6 MHz
870	Color Doppler frequency	1.7, 1.8, 1.9, 2.2, 2.4, 2.5, 3.0, 3.1, 3.7, 3.8 MHz
871	**ML6-15-D, matrix array linear probe**	
872	Applications	Abdomen, small parts, peripheral vascular, neonatal, pediatric, neonatal transcranial, general musculoskeletal, superficial musculoskeletal
873	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LJ)
874	Bandwidth	4.0 – 16.0 MHz
875	Number of elements	1008
876	Field of view (max.)	50.4 mm
877	Physical foot print	50.4 x 10 mm
878	B-Mode frequency	7.0, 9.0, 10.0, 11.0, 12.0, 15.0, 17.0 MHz
879	Harmonic frequency	10.0, 12.0, 14.0, 15.0 MHz
880	PW Doppler frequency	5.0, 6.3, 8.3 MHz
881	Color Doppler frequency	5.1, 6.1, 7.3, 8.2, 9.2, 10.3, 11.4, 12.4 MHz
882	**P2D, CW split crystal probe**	
883	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
884	Frequency	2.1 MHz
885	**P6D, CW split crystal probe**	
886	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
887	Frequency	6.3 MHz
888	**RAB6-D, convex volume probe**	
889	Applications	Abdomen, OB/GYN, pediatric, neonatal
890	Biopsy guide	Multi angle biopsy start kit (H48681ML)
891	Bandwidth	2.0 – 8.0 MHz
892	Number of elements	192
893	Field of view (max.)	80°
894	Physical foot print	62 x 34 mm
895	B-Mode frequency	3.5, 5.0, 8.0 MHz
896	Harmonic frequency	4.0, 5.0, 6.5, 8.0 MHz
897	PW Doppler frequency	3.1, 4.2, 5.0 MHz
898	Color Doppler frequency	2.8, 3.5, 3.8 MHz
899	**RIC5-9-D, convex volume probe**	
900	Applications	OB/GYN, urology
901	Biopsy guide	Single angle, reusable (H46721R)
902	Bandwidth	3.0 – 10.0 MHz
903	Number of elements	192
904	Field of view (max.)	179°
905	Physical foot print	32 x 27 mm
906	B-Mode frequency	3.9, 5.0, 5.5, 6.0, 6.5, 7.0, 8.0 MHz
907	Harmonic frequency	5.0, 7.0, 9.0 MHz
908	PW Doppler frequency	3.6, 4.2, 5.0 MHz
909	Color Doppler frequency	4.3, 6.1, 7.3 MHz
910	**6Tc-RS, TEE probe**	
911	Applications	Adult cardiac
912	Bandwidth	2.0 – 8.0 MHz
913	Number of elements	64
914	Field of view (max.)	90°
915	Physical foot print	37 x 13 x 10 mm
916	B-Mode frequency	5.0, 6.0, 6.5 MHz
917	Harmonic frequency	6.0 MHz
918	PW Doppler frequency	3.1, 3.6, 4.2, 5.0, 6.3 MHz
919	Color Doppler frequency	3.3, 4.1, 4.7, 5.5 MHz

920	**Vscan Air CL, Convex probe**	
921	Applications	Abdomen, OB, peripheral vascular, general musculoskeletal, superficial musculoskeletal, cardiac, pleural
922	Bandwidth	2 - 5 MHz
923	Number of elements	128
924	Field of view (max.)	67°
925	Physical foot print	64 x 16 mm
926	B-Mode frequency	4.0 MHz
927	Harmonic frequency	4.0, 4.4 MHz
928	PW Doppler frequency	2.3 MHz
929	Color Doppler frequency	1.9, 2.3 MHz
930	**Vscan Air CL, Linear probe**	
931	Applications	Peripheral Vascular, small parts, nerves, general musculoskeletal, superficial musculoskeletal, pleural (lung), neohead
932	Bandwidth	3 - 12 MHz
933	Number of elements	192
934	Field of view (max.)	38.4 mm
935	Physical foot print	40 x 7 mm
936	B-Mode frequency	8.0, 12.5 MHz
937	Harmonic frequency	8.5 MHz
938	PW Doppler frequency	4.5 MHz
939	Color Doppler frequency	4.5, 6.0 MHz
940	**External Inputs and outputs (not including on-board peripherals)**	
941	HDMI	
942	Ethernet	
943	Multiple USB 3.0 ports, 2 USB Type C ports	
944	2 Microphones on touch panel	
945	Universal Video Converter	
946	**Safety Conformance**	
947	**The LOGIQ Totus is:**	
948	Classified to ANSI/AAMI ES60601-1 Medical Electrical Equipment, Part 1: General Requirements for Safety by a Nationally Recognized Test Lab	
949	Certified to CSA CAN/CSA-C22.2 NO. 60601-1 General requirements for safety	
950	CE Marked to Regulation (EU) 2017/745 on Medical Devices Conforms to the following standards for safety	
951	Conforms to the following standards for safety (including national deviations)	• IEC/EN 60601-1 Medical electrical equipment – Part 1: General requirements for basic safety and essential performance • IEC/EN 60601-1-2 Medial electrical equipment – Part 1-2: General requirements for safety – Collateral Standard: Electromagnetic compatibility – requirements and tests • IEC/EN 60601-1-6 Medical electrical equipment Part 1 -6: General requirements for basic safety and essential performance – Collateral Standard: Usability • IEC/EN 60601-1-9 Medical electrical equipment Part 1 -9: General requirements for basic safety and essential performance –Collateral Standard: Requirements for environmentally conscious design • IEC/EN 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment • IEC/EN 62366-1 Application of usability engineering to medical devices • IEC/EN 62304 Software Life Cycle Processes • IEC/EN 62359 Ultrasonic - Field characterization - Test methods for the

952		• 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 •ISO 17664-2 : Processing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices • ISO14971 (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 2015/863 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)
953	**Supplement: cardiac measurements/calculations**	
954	**B-Mode measurements**	
955	Aorta	• Aortic Root Diameter (Ao Root Diam) • Aortic Arch Diameter (Ao Arch Diam) • Ascending Aortic diameter (Ao Asc) • Descending Aortic Diameter (Ao Desc Diam) • Aorta Isthmus (Ao Isthmus) • Aorta (Ao st junct)
956	Aortic valve	• Aortic Valve Cusp Separation (AV Cusp) • Aortic Valve Area Planimetry (AVA Planimetry) • (Trans AVA)
957	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)
958	Left ventricle	• Left Ventricle Mass (LVPWd, LVPWs) • Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds) • Left Ventricle Internal Diameter (LVIDd, LVI Ds) Left Ventricle Length (LVLd, LVLs) • Left Ventricle Outflow Tract Diameter (LVOT Diam) • Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs) • Left Ventricle Length (LV Major) • Left Ventricle Width (LV Minor) • Left Ventricle Outflow Tract Area (LVOT) • Left Ventricle Area, Two Chamber/Four Chamber/Short Axis (LVA (d), LVA (s)) • Left Ventricle Endocardial Area, Width (LVA (d), LVA(s)) • Left Ventricle Epicardial Area, Length (LVAepi (d), LVAepi (s)) • Left Ventricle Mass Index (LVPWd, LVPWs) • Ejection Fraction, Teichholz/Cube (LVIDd, LVIDs)
959	Left ventricle continued	• Left Ventricle Posterior Wall Fractional Shortening (LVPWd, LVPWs) • Left Ventricle Stroke Index, Teichholz/Cube (LVIDd, LVIDs and Body Surface Area) • Left Ventricle Fractional Shortening (LVIDd, LVIDs) • Left Ventricle Stroke Volume, Teichholz/Cubic (LVIDd, LVIDs) • Left Ventricle Stroke Index, Single Plane, Two Chamber, Method of Disk (LVI Dd, LVIDs, LVSd, LVSs) • Left Ventricle Stroke Index, Single Plane, Four Chamber, Method of Disk (LVI Dd, LVIDs, LVSd, LVSs) • Left Ventricle Stroke Index, Bi-Plane, Bullet, Method of Disk (LVAd, LVAs) • Interventricular Septum (IVS) • Left Ventricle Internal Diameter (LVI D) • Left Ventricle Posterior Wall Thickness (LVPW)
960	Mitral valve	• Mitral Valve Annulus Diameter (MV Ann Diam) • E-Point-to-Septum Separation (EPSS) • Mitral Valve Area Planimetry (MVA Planimetry)

961	Pulmonic valve	• Pulmonic Valve Area (PV Planimetry) • Pulmonic Valve Annulus Diameter (PV Annulus Diam) • Pulmonic Diameter (Pulmonic Diam)
962	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)
963	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)
964	System inferior vena cava	• Systemic Vein Diameter (Systemic Diam) • Patent Ductus Arterosis Diameter (PDA Diam) • Pericard Effusion (PEs) • Patent Foramen Ovale Diameter (PFO Diam) • Ventricular Septal Defect Diameter (VSD Diam) • Interventricular Septum (IVS) Fractional Shortening (IVSd, IVSs)
965	Tricuspid valve	• Tricuspid Valve Area (TV Panimetry) • Tricuspid Valve Annulus Diameter (TV Annulus Diam)
966	**M-Mode measurements**	
967	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)
968	Left atrium	• Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio) • Left Atrium Diameter (LA Diam)
969	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)
970	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)
971	Pulmonic valve	• QRS Complex to End of Envelope (Q-PV close)
972	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)
973	System	• Pericard Effusion (PE (d))
974	Tricuspid valve	• QRS Complex to End of Envelope (Q-TV close) • Tricuspid Annular Plane Systolic Excursion (TAPSE)
975	**Doppler Mode measurements**	

976	Aortic valve	• Aortic Insufficiency Mean Pressure Gradient (AR Trace) • Aortic Insufficiency Peak Pressure Gradient (AR Vmax) • Aortic Insufficiency End Diastole Pressure Gradient (AR Trace) • Aortic Insufficiency Mean Velocity (AR Trace) • Aortic Insufficiency Velocity Time Integral (AR Trace) • Aortic Valve Mean Velocity (AV Trace) • Aortic Valve Velocity Time Integral (AV Trace) • Aortic Valve Mean Pressure Gradient (AV Trace) • Aortic Valve Peak Pressure Gradient (AR Vmax) • Aortic Insufficiency Peak Velocity (AR Vmax) • Aortic Insufficiency End-Diastolic Velocity (AR Trace) • Aortic Valve Peak Velocity (AV Vmax) • Aortic Valve Peak Velocity at Point E (AV Vmax)
977	Aortic valve continued	• Aorta Proximal Coarctation (Coarc Pre-Duct) • Aorta Distal Coarctation (Coarc Post-Duct) • Aortic Valve Insufficiency Pressure Half Time (AR PHT) • Aortic Valve Flow Acceleration (AV Trace) • Aortic Valve Pressure Half Time (AV Trace) • Aortic Valve Acceleration Time (AV Acc Time) • Aortic Valve Deceleration Time (AV Dec Time) • Aortic Valve Ejection Time (AVET) • Aortic Valve Acceleration to Ejection Time Ratio (AV Acc Time, AVET) • Aortic Valve Area(VTI): AVA (Vmax)
978	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)
979	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 Valve Regurgitant Flow Acceleration (MR Trace) • Mitral Valve Regurgitant Mean Velocity (MR Trace)
980	Mitral valve continued	• Mitral Regurgitant Mean Pressure Gradient (MR Trace) • Mitral Regurgitant Velocity Time Integral (MR Trace) • Mitral Valve Mean Velocity (MV Trace) • Mitral Valve Velocity Time Integral (MV Trace) • Mitral Valve Mean Pressure Gradient (MV Trace) • Mitral Regurgitant Peak Pressure Gradient (MR Vmax) • Mitral Valve Peak Pressure Gradient (MV Vmax) • Mitral Regurgitant Peak Velocity (MR Vmax) • Mitral Valve Peak Velocity (MV Vmax) • Mitral Valve Velocity Peak A (MV A Velocity) • Mitral Valve Velocity Peak E (MV E Velocity)
981	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 Time to Peak (MV TTP) • Mitral Valve Acceleration Time/Deceleration Time Ratio (MVAcc/Dec Time) • Stroke Volume Index by Mitral Flow (MVA Planimetry, MVTrace)

982	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)
983	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 Acceleration Time (PV Acc Time) • Pulmonic Valve Ejection Time (PVET) • QRS Complex to End of Envelope (Q-to-PV Close) • Pulmonic Valve Acceleration to Ejection TIme Ratio (PV Acc Time, PVET)
984	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)
985	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)
986	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)
987	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)
988	**Color Flow Mode measurements**	

989	Aortic valve	• Proximal Isovelocity Surface Area: Regurgitant Orifice Area (AR Radius) • Proximal Isovelocity Surface Area: Radius of Aliased Point (AR Radius) • Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace) • Proximal Isovelocity Surface Area: Regurgitant Volume Flow (AR Trace) • Proximal Isovelocity Surface Area: Aliased Velocity (AR Vmax)
990	Mitral valve	• Proximal Isovelocity Surface Area: Regurgitant Orifice Area (MR Radius) • Proximal Isovelocity Surface Area: Radius of Aliased Point (MR Radius) • Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) • Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) • Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax)
991	**Combination Mode measurements**	
992	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)
993	Left ventricle	• Cardiac Output, Teichholz/Cubic (LVIDd, LVI Ds, HR) • Cardiac Output Two Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR) • Cardiac Output Four Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR) • Ejection Fraction Two Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs) • Ejection Fraction Four Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs) • Left Ventricle Stroke Volume, Single Plane, Two Chamber/Four Chamber, Area-Length (LVAd, LVAs)
994	Left ventricle continued	• Left Ventricle Stroke Volume, Single Plane, Two Chamber/Four Chamber, Method of Disk (Simpson) (LVIDd, LVIDs, LVAd, LVAs) • Left Ventricle Volume, Two Chamber/Four Chamber, Area-Length (LVAd, LVAs) • Ejection Fraction, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH) • Left Ventricle Stroke Volume, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH) • Left Ventricle Volume, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH) • Left Ventricle Stroke Index, Single Plane, Two Chamber/Four Chamber, Area-Length (LVSd, LVSs and BSA) • Left Ventricle Volume, Single Plane, Two Chamber/Four Chamber, Method of Disk (LVAd, LVAs) • Left Ventricle Volume, Apical View, Long Axis, Method of Disk (LVAd, LVAs)
995	Mitral valve	• Stroke Volume by Mitral Flow (MVA Planimetry, MV Trace) • Cardiac Output by Mitral Flow (MVA Planimetry, MV Trace, HR)
996	Pulmonic valve	• Stroke Volume by Pulmonic Flow (PV Planimetry, PV Trace) • Cardiac Output by Pulmonic Flow (PV Planimetry, PV Trace, HR)
997	Tricuspid valve	• Cardiac Output by Tricuspid Flow (TV Planimetry, TV Trace, HR)
998	**Cardiac worksheet**	
999	Parameter: lists the mode, the measurement folder and the specific measurement	
1000	Measured Value: Up to six measurement values for each item. Average, maximum, minimum or last	
1001	**Generic study in cardiology**	
1002	Stroke Volume (SV)	
1003	Cardiac Output (CO)	

XDclear transducer includes single crystal, acoustic amplifier & cool stack technology