GE HealthCare

Versana Active™

v1.5

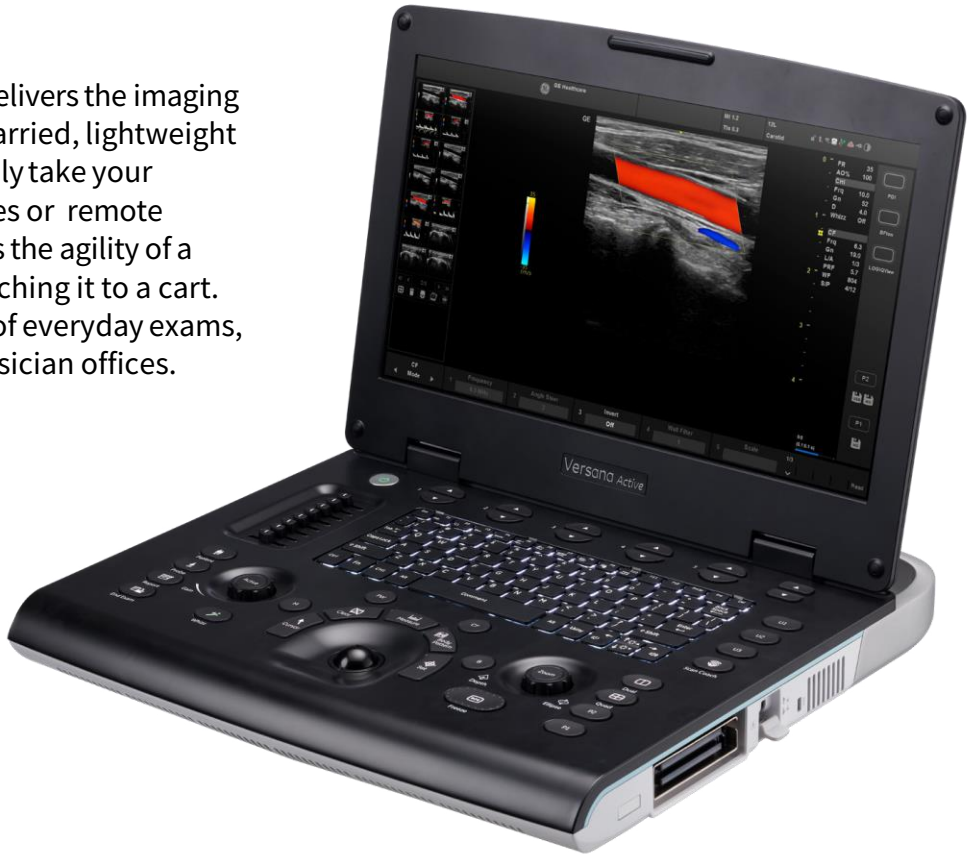
Ultrasound system

Specification sheet

Sept. 26, 2024

Rev. 5

Versana Active ultrasound system delivers the imaging capability of a console in a hand-carried, lightweight package that enables you to actively take your system to your patients, on premises or remote facilities. This reliable system brings the agility of a laptop unit with capability for attaching it to a cart. Adaptable to cover a broad range of everyday exams, it is easy to carry to clinics and physician offices.



Contents

1. General specifications

1.01 Dimensions and weight	
Height	58 mm
Width	390 mm
Length	362 mm
Weight (no Peripherals)	5.0 kg with battery

1.02 Electrical power	
Voltage: 100 – 240 VAC	
Frequency: 50/60 Hz	
Power consumption	• No more than 200 VA with peripherals • No more than 450 VA with peripherals (with advanced cart*)

1.03 Console design
1 in built active probe ports
Integrated SSD (256 GB standard)/(1T option)
Integrated speakers

2. User interface

2.01 Operator keyboard
Full alphanumeric keypad covered with washable protection film
8 TGC pods

2.02 Monitor
15.6'' (344.16 x 193.59 mm) high-resolution LED Backlit monitor (1920 x 1080 pixels)
Brightness/contrast/color temperature adjustment

3. System overview

3.01 Applications
Abdominal
Obstetrical
Gynecological
Small parts
Musculoskeletal
Vascular/peripheral vascular
Urological
Pediatric

Applications *(cont.)*
Cardiac
Thoracic
Transcranial
Transvaginal
Transrectal

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Electronic convex
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Linear array
Microconvex array
Sector phased array
Volume Probe(4D)*

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CW Doppler mode (option)
Contrast agency detection (option)
TVI mode (option)
Elastography (option)
3D/4D volume modes (option)*

4. System standard features

Installation wizard
Whizz
CrossXBeam™
SRI-HD (High Definition Speckle Reduction Imaging)
B-Steer
Coded Phase Inversion Harmonic Imaging
Virtual Convex
Patient information database
Image Archive on integrated HDD
Raw Data Analysis
Voice comments
Real-time automatic Doppler calculations
OB Calculations
Fetal Trending
Multi-gestational calculations
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Gynecological calculations
Vascular calculations
Breast Productivity
Urological calculations
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On-board reporting package
MPEGvue
Network storage
Remote capability: RSvP
My Trainer
Scan Assistant
Standby
QAnalysis

5. System options

CW Doppler
Anatomical M-Mode
Curved AMM
LOGIQ View

5. System options *(cont.)*

Advanced 3D (Easy 3D)	
B-Flow (B-Flow color)	
Tissue Velocity Imaging (TVI)	
TVM	
Auto Bladder (Dynamic image optimization, Auto measurement and Auto annotation)	
Stress Echo	
Scan Coach	
Auto EF	
Sono Biometry (BPD/HC/AC/HL/FL)	
Auto IMT	
Breast Care	
Thyroid productivity	A package in thyroid measurement with including measurement and relevant description (Includes TI-RADS ACR)
Needle recognition	
Follow-up tool	
DICOM® 3.0 Connectivity	
Contrast agency detection	
Elastography	
Static 3D/Real-time 4D: TUI*	

6. Peripheral options

Sony UP-D898MD B/W thermal printer
Sony UP-D25MD Color thermal printer
Sony UP-D898DC B/W thermal printer
1-pedal and 3-pedal type footswitch
USB stick
External USB HDD
DVD RW kit
USB Wireless adaptor: sales availability varies in different countries
ECG Module
HP Office 200 printer
Bluetooth adapter

7. Display modes

7.01 Live and stored display format	
Widescreen	• Full size and split screen • Both with thumbnails for still and Cine
Review image format	4x4 and thumbnails for still and Cine
Simultaneous capability	• Dual B (B/B) • B + CFM/PDI • B + PW/M • B + CFM + M • Real-time triplex mode (B + CFM/PDI+PW) • B + B-Flow/B-Flow Color
Zoom	Write (HD)/read 67X
Colorized Image	• Colorized B • Colorized B-Flow • Colorized M • Colorized PW • Colorized CW • Colorized 3D
Timeline display	• Independent dual B/PW or CW display • Display Format – Top/bottom selectable format (Size: 1/2:1/2; 1/3:2/3; 2/3:1/3) – Side/side selectable format (Size: 1/2:1/2; 1/4:3/4; TL only)
Others	• Virtual Convex • LOGIQ View • TUI (Tomography Ultrasound Imaging)

8. Selectable alternating modes

B/M/PW/CW/CF/PDI/TVI/TVD
B + B
B + M
B + PW/CW
B + CFM/PDI
B + CFM/PDI + PW/CW
B + TVI
B + TVI + TVD
Multi-image split screen (quad screen)
Live/Frozen
Independent CINE playback

9. Display annotation

9.01 General user interface		
Patient name: First, last (up to 64 total characters)		
Patient ID (Up to 64 characters)		
Other ID (Up to 64 characters)		
Age, gender and date of birth		
Hospital name		
Date format: 3 types selectable	• MM/DD/YYYY • YYYY/MM/DD	• DD/MM/YYYY
Time format: 2 types selectable	• 24 hours • 12 hours	
Gestational age from	• LMP • EDD	• GA • BBT
Displayed Acoustic Output	• TIs: Thermal Index Soft Tissue • TIc: Thermal Index Cranial (Bone) • TIb: Thermal Index Bone • MI: Mechanical Index	
% of maximum power output		
Probe name		
Map name		
Probe orientation		
Depth scale marker		
Lateral scale marker		
Focal zone marker		
Image depth		
Zoom depth		

9.02 B-Mode
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9. Display annotation *(cont.)*

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Inversion

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9. Display annotation *(cont.)*

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Adv. Rend
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Cut Depth
Depth
Rotational Angle
Step Angle
Rotation Axis
Start Angle
End Angle
Loop Speed

10. General system parameters

10.01 System setup	
10 Pre-programmable Categories	
User Programmable Preset Capability	
Factory Default Preset Data	
Languages	English, Latin American Spanish, French, German, Italian, Brazilian Portuguese, Chinese (simplified), Swedish, Russian, Norwegian, Danish, Dutch, Finnish
OB Report Formats	
Tokyo Univ., Osaka Univ., USA, Europe, and ASUM	
User defined annotations	
Body patterns	

10.02 System scanning parameters
Digital Agile Beamformer Architecture
7,411,810 system processing channels
Max. Frame Rate: 1790 fps, probe dependent and modes
Displayed Imaging Depth: 1 – 33 cm
Minimum Depth of Field: 0 – 1 cm, probe dependent
Maximum Depth of Field: 0 – 33 cm, probe dependent
Transmission Focus: 1 – 8 Focal Points selectable, probe dependent and application
Quad Beamforming
Continuous Dynamic Receive Focus/Aperture
Multi-Frequency/Wideband Technology
Frequency Range: 1.7 to 18 MHz
256 Shades of Gray
269 dB systematic Dynamic Range
Adjustable Field of View (FOV): up to 168 degree, probe dependent
Image Reverse: Right/Left
Image Rotation of 0° 90°180° 270°

10.03 B-Mode	
Acoustic power output	0 – 100%, 2, 5 and 10 steps
Gain	From 0 – 90 dB, 1 dB per step
Adjustable dynamic range	36 – 96 dB, 3 or 6 dB per step
Frame averaging	8 steps
Gray scale map	6 or 8 types, probe and application dependent
B colorization	9 types
Frequency	Up to 4 selectable, probe dependent
Line density	5 – 7 steps, probe dependent
Line density zoom	5 – 7 steps, probe dependent
Thermal index	TIC, TIS, TIB
Image reverse	On/off
Focus number	8 steps
Focus width	3 types
Suppression	6 steps
Edge enhance	7 steps
Rejection	6 steps
Steered linear	±12°, ±15°, probe dependent
Scanning size (FOV or angle, probe dependent)	
SRI-HD	Up to 8 levels selectable
CrossXBeam	Up to 9 angles selectable, probe dependent
Depth	1 – 33 cm, 0.5,1 or 2 cm per step, probe dependent

10.04 Coded Harmonic Imaging	
Coded Phase Inversion Harmonic Imaging	
Available on all probes	
Line density	5 or 6 steps, probe dependent
Line density zoom	5 or 6 steps, probe dependent
Suppression	6 steps
Edge enhance	7 steps
Gray scale map	6 or 8 types, probe and application dependent
Tint map	9 types

10. General system parameters

(cont.)

10.04 Coded Harmonic Imaging *(cont.)*	
Gain	0 – 90 dB, 1 dB per step
Dynamic range	51 – 78 dB, 3 dB per step; 36 – 48 dB/78 – 96 dB, 6 dB per step;
Rejection	6 steps
Frequency	Up to 4 steps, probe dependent

10.05 SRI-HD
High Definition Speckle Reduction Imaging Provides multiple levels of speckle reduction
Compatible with side-by-side DualView display
Compatible with all linear, convex and sector transducers
Compatible with B-Mode, 3D/4D imaging*

10.06 CrossXBeam		
Provides 3, 5, 7, 9 of spatial compounding		
Live side-by-side DualView display		
Compatible with	• Color Mode • SRI-HD • Virtual Convex	• PW • Coded Harmonic Imaging
Available on 4C-RS, L6-12-RS, E8C-RS, E8Cs-RS, 8C-RS, RAB2-6-RS, L8-18i-RS, 9L-RS, 12L-RS, LK760-RS		

10.07 Color Flow Mode	
Baseline	0 – 100%, 10% per step
Invert	Off/on
CF/PDI focus depth	Default pre-settable for 10 – 100% of ROI in depth, 15% or 20% per step
CF/PDI flash suppression	5 steps
CF/PDI angle steer	0, ±10˚, ±15˚, ±20˚, probe dependent
Packet size	8 – 24, probe and application dependent
Line density	5 steps
Line density zoom	5 steps
Frame average	7 steps
PRF	0.1 – 27.2 KHz
Spatial filter	6 steps
Gain	0 – 40 dB, 0.5 dB per step

10.07 Color Flow Mode *(cont.)*	
Wall filter	4 steps, probe and application dependent
Scanning size (FOV or angle)	Probe dependent
CF/PDI vertical size (mm) of ROI	Default pre-settable
CF/PDI center depth (mm) of ROI	Default pre-settable
CF/PDI frequency	Up to 5 steps, probe dependent
Color maps, including velocity-variance maps	20 types, probe and application dependent
Transparent map	5 steps
Color threshold	0 – 100%, 10% per step
Accumulation	8 steps

10.08 Power Doppler Imaging Mode	
PDI map	14 types
CF/PDI focus depth	Default pre-settable for 10 – 100% of ROI in depth, 15% or 20% per step
CF/PDI acoustic output	0 – 100%, 2%, 5% or 10% per step
CF/PDI angle steer	0, ±10˚, ±15˚, ±20˚, probe dependent
Packet size	8 – 24, probe and application dependent
Spatial filter	6 steps
Frame average	7 steps
PRF	0.1 – 26 KHz
Power threshold	0 – 100%, 10% per step
Gain	0 – 40 dB, 0.5 dB per step
Wall filter	4 steps, probe and application dependent
CF/PDI frequency	Up to 5 steps, probe dependent
Transparent map	5 steps
Invert	On/off
Accumulation	8 steps

10. General system parameters

(cont.)

10.09 M-Mode	
Gain	-20 – 20 dB, 1 dB per step
Gray scale map	6 or 8 types, probe dependent
Colorization	9 types
Scanning size (FOV or angle, probe dependent, see probe specifications)	
Rejection	6 steps
Compression	13 steps
Sweep Speed	8 steps
M/PW display format	Vert 1/3B, Vert 1/2B, Vert 2/3B, Horiz 1/2B, Horiz 1/4B, TL only

10.10 Anatomical M-Mode (option)
M-Mode cursor adjustable at any plane
Can be activated from a Cine loop from a live or stored image
Measure and analysis capability
Available with Color Flow mode
Curved AMM

10.11 Pulse Wave Doppler Mode	
Acoustic power	0 – 100%, 2, 5 and 10 steps
Gain	0 – 85 dB, 1 dB per step
Gray scale map	Up to 8 types
PRF	0.3 – 27.9 KHz
Transmit frequency	1.7 – 10 MHz, probe dependent
Wall filter	5.5 – 5000 Hz, 27 steps, probe dependent
PW colorization	Up to 6 types
Velocity scale range	0.1 – 7011 cm/s
Sample volume depth	0.1 – 33 cm, probe dependent
Sweep speed	0 – 7, 8 steps
SV gate	1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 mm
Angle correction	-90˚ – 90˚, 1˚ per step
M/PW display format	Vert 1/3B, Vert 1/2B, Vert 2/3B, Horiz 1/2B, Horiz 1/4B, TL only
Spectrum inversion	Off/on
Simultaneous	Off (PW only)/on

10.11 Pulse Wave Doppler Mode *(cont.)*	
PW angle steer	0, ±10˚, ±15˚, ±20˚ (use angle steer of B-Mode), probe dependent
Trace method	Off, Max, Mean
Baseline shift	11 steps
Auto Calcs/Doppler Auto Trace	Off, Frozen, Live
Compression	0.5 – 2.4 (0.5, 0.7, 0.9, 1, 1.1, 1.4, 1.6, 2, 2.4)
Trace direction	Above, below, both
Trace sensitivity	0 – 40, 2 per step

10.12 Continues Wave Doppler Mode	
Gray scale map	8 types
Baseline	11 steps
Angle correct	-90˚ – 90˚, 1˚ per step
Spectral color	6 types
Invert	Off/on
Cycles to average/ Spectral averaging	5 steps
Gain	0 – 85 dB, 1 dB per step
Wall filter	5.5 – 5000 Hz, 27 steps, dependent on probe and application
CW-Mode includes	• Transmit frequency: 1.9, 4.2, 5.0, 6.2 MHz • CW colorization: tint map A/B/C/D/E/F • Velocity scale range: 0.2 – 6105 cm/s • Spectrum inversion: On, off Trace method: Max, mean, off • Auto Calcs/Doppler Auto Trace: Frozen, live, off • Trace direction: Above, below, both
Trace sensitivity: 0 – 40, 2 per step	

10.13 Cine memory/image memory
384 MB of Cine memory
Selectable Cine sequence for Cine review
Prospective Cine mark
Measurements/calculations and annotations on Cine playback
Scrolling timeline memory
Dual image Cine display
Quad image Cine display

10. General system parameters

(cont.)

10.13 Cine memory/image memory *(cont.)*	
Cine gauge and Cine image number display	
Cine review loop	
Cine review speed	11 steps (11, 13, 14, 17, 22, 25, 31, 48, 100, 200, 400%)

10.14 Image storage	
On-board database of patient information	
Conversion to formats	JPEG, AVI, WMV
Live image and stored image side-by-side display	
Reload of archived data sets	
Network storage support for Import, Export, DICOM Read, SaveAs, MPEGvue	
Storage formats	• DICOM – compressed/uncompressed, single/multi-frame, with/without Raw Data • Export JPEG, WMV (MPEG 4) and AVI formats • DICOM still image storage size: ~3.9 MB • Display format: full size, 4x4 and thumbnails
Storage devices	• Internal hard drive partition of 100 GB (256 GB Console), and 814 GB (1 TB Console option) for image storage • External USB HDD and USB memory stick support for Import, Export, DICOM Read, SaveAs, and MPEGvue • CD-RW storage: 700 MB • DVD storage: -R (4.7 GB)

10.15 Connectivity and DICOM	
Ethernet network connection	• DICOM 3.0 (option) • Verify • Print • Store • Modality worklist • Storage commitment • Modality Performed Procedure Step (MPPS) • Query/retrieve • Structured reporting template (can be compared to vascular and OB standard) • Remote capability InSite™ Exc

10.16 Virtual convex
Provides a convex field of view
Compatible with CrossXBeam for linear transducers
Available on linear and sector transducers

10.17 LOGIQView (option)
Extended Field of View Imaging
Available on 4C-RS, L6-12-RS, 8C-RS, 3Sc-RS, E8C-RS, E8Cs-RS, L8-18i-RS, 6S-RS, LK760-RS, 12L-RS, 9L-RS, 12S-RS,RAB2-6-RS probes
For use in B-Mode
CrossXBeam is available on linear probes
Auto detection of scan direction
Post-process zoom
Rotation
Auto fit on monitor
Measurements in B-Mode
Up to 60 cm scan length

10.18 Easy 3D (option)
Allows unlimited rotation and planar translations
3D reconstruction from Cine sweep
Utilities: Average off/Average light/Average medium/ Average strong
Gray surface: Off/on
Threshold1: 0 – 255
Threshold2: 0 – 255
Scan distance: 1.0 – 15.0
Colorize: 0 – 360

10.19 Advanced 3D (option)
Define axis: Select 2 points as start and end point of long axis
Group planes: Off/Main/Parallel/Angular
Reslice: Cube/Virtual Rescan/Cubic Plane
Tile: 1/2/4/6

10. General system parameters

(cont.)

10.20 Static 3D/Real-time 4D (option)*

Available on RAB2-6-RS

Acquisition modes	•Static 3D • Real-time 4D*
Visualization modes	• 3D rendering (diverse surface and intensity projection modes) • Sectional planes (3 section planes perpendicular to each other) • TUI
Render Mode	Surface Texture, Surface Smooth, Transp. Max, Transp. Min, Transp. X-ray, Mix Mode of two render modes
Display format	• Quad: A-/B-/ C-Plane/3D • Dual: A-Plane/3D • Single: 3D
Curved 3-point render start	
3D Movie	• Loop Speed: 6 – 400 • Run/stop • Scalpel: 3D cut tool • Cut mode: Inside Contour/Outside Contour/Inside Box/Outside Box/ Small Eraser/Big Eraser • Cut depth: Full/User Defined • Depth: 0 – 1000 • 3D rotation Cine • Rotational angle: 30 – 360° • Step angle: 1 – 15° • Rotation axis: X/Y • 3D volume review • Start frame: Define start frame • End frame: Define end frame
TUI: Tomographic Ultrasound Imaging	• Display format: 1x1/1x2/2x2/3x3 • Slices: 3 – 19 • Slices distance: 0.5 – 40 mm
Real-time 4D*	• 4D Volume Cine • LoopSpeed:6-400 • Run/Stop

10.21 Elastography (option)

Available on L6-12-RS, 9L-RS, 12L-RS

Semi-quantification	• Frame reject: 0 – 8 • Axial smoothing: 0 – 4 • Noise reject: 0 – 8 • Sample Volume: 0 – 4, probe dependent • Lateral smoothing: 0 – 4 • Window: 0 – 8 • Map: 8 • Frame average: 0 – 10 • Line Density: 0 – 4 • Soft compress: 0 – 10 • Hard compress: 0 – 10

10.22 Contrast agency detection (option)

Available on 4C	• Line density: 0 – 4 • SRI HD: 0 – 2 • Suppression: 0 – 5 • Frame average: 0 – 7 • Dynamic range: 36 – 96 dB • Rotation: Up/down • Modes/Frequency: Pen (Penetration), Gen (General) and Pes (Resolution) and • Display tissue image and contrast-enhanced image simultaneously in split screen • 2 contrast timers • Time delay: 0.3 – 10 seconds • Accumulation mode: 8 steps • Max Enhance: On/Off • Gray map: 10 types

10.23 B-Flow (option)

Available on 4C-RS, L6-12-RS, 12L-RS, 9L-RS

Background	On/off
Sensitivity/PRI	1 – 50, 17 steps
Line density	5 steps
Edge enhance	7 steps
Frame average	0 – 7, 8 steps
Gray scale map	8 maps
Tint map	5 maps
Dynamic range	36 – 96 dB, 16 steps
Rejection	6 steps
Gain	0 – 90 dB range, 1 dB per step
B-Flow Color	
Accumulation	8 levels

10. General system parameters

(cont.)

10.24 TVI (option)

Myocardial Doppler imaging with color overlay on tissue image

Available on the sector probes

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

QAnalysis: Multiple Time Motion trace display from selected points in the myocardium

10.25 TVM (option)

TVI with M-Mode active

Available on the sector probes

Provides both myocardium motion velocity and direction

10.26 Stress Echo (option)

Advanced and flexible stress echo examination capabilities	• Provides exercise and pharmacological protocol templates • 8 default templates • Template editor for user configuration of existing templates or creation of new templates • Reference scan display during acquisition for stress level
Comparison (dual screen)	• Baseline level/Previous level selectable • Raw data continuous capture • Over 87.5 seconds available • Wall motion scoring (bulls eye and segmental) • Smart stress: Automatically set up various scanning parameters (geometry, frequency, gain, etc.) according to same projection on previous level

10.27 Follow-up tool (option)

The follow-up tool is intended to more accurately perform serial scans on a patient, and compare the images of a previous ultrasound exam with the current exam.

10.28 Breast care (option)

Breast care is a customizable workflow designed for breast scanning. With its guiding, user can complete various modes of imaging, measurement, lesion BI-RADS® classification, and find positive area efficiently. That's an easy reference in the device when patient is in subsequent visit.

10.29 Needle recognition (option)

Needle recognition allows you to obtain precise needle imaging in the dashed box. It is available with probeson L6-12-RS,12L-RS, 4C-RS, 9L-RS.

10.30 Scan Coach (option)

Scan Coach is a contextual reference tool. It is with clinical guidance for scan plane acquisition and references for anatomical structures. It can be displayed on-demand by the user. Clinical reference images & animations to depict information related to each step. It covers five applications.

- Abdomen
- Obstetrics
- Gynecology
- Cardiology
- Vascular

10.31 MyTrainer

Abstracted from basic user manual, it lists out FAQs from customers and instructs customer how to solve problems by themselves timely.

10.32 Battery (option)

The lithium ion battery provides power when an AC power source is not available.

10.33 Scan Assistant

Scan Assistant provides an automated exam script that moves you through an exam step-by-step. This allows you to focus on performing the exam rather than on controlling the system and can help you to increase consistency while reducing keystrokes.

10.34 InSite Exc

InSite Exc is a direct link with a GE Online Service Engineer, Applications Support Engineer or a Request for Service.

10.35 Whizz

Whizz will continuously optimize the brightness, contrast and uniformity of B-Mode images when scanning different tissues. Whizz in PW/CW Doppler Mode optimizes the spectral data. Auto adjusts the Velocity Scale/PRF (live imaging only), baseline shift, and invert (if preset). Upon deactivation, the spectrum is still optimized.

10. General system parameters

(cont.)

10.36 Controls available while "live"	
Write Zoom	
B/M-Mode	• Gain • TGC • Dynamic Range • Acoustic Output • Transmission Focus Position • Transmission Focus Number • Line Density Control • Sweep Speed for M-Mode • Number of Angles for CrossXBeam
PW-Mode	• Gain • Acoustic Output • Transmission Frequency • Scale • Wall Filter • Sample Volume Gate – Length – Depth • Volume
Color Flow Mode	• CFM Gain • CFM Velocity Range • Acoustic Output • Wall Filter • Packet Size • Line Density • CFM Spatial Filter • CFM Frame Average • Frequency/Velocity Baseline Shift

10.37 Controls available on Freeze or Recall
SRI-HD
CrossXBeam – Display non-compounded and compounded image simultaneously in split screen
Easy 3D reconstruction from a stored Cine loop
CrossXBeam is disabled on Freeze or Recall
TGC
Colorized B and M
Frame average (loops only)
Dynamic range
Anatomical M-Mode
Gray Map
Post gain
Baseline shift (PW, CW)
Sweep speed

10.37 Controls available on Freeze or Recall *(cont.)*
Compression
Rejection
Colorized spectrum
Display format
Angle Correct
Quick Angle Correct
Overall gain (loops and stills)
Color map
Transparency map
CFM display threshold
Invert for Color/Doppler

11. Measurements/calculations

11.01 General B-Mode
Depth and distance
Circumference (ellipse/trace)
Area (ellipse/trace)
Volume (ellipsoid)
% Stenosis (area or diameter)
Angle between 2 lines

11.02 General M-Mode
Depth
Distance
Time
Slope
Heart rate

11.03 General Doppler measurements/calculations
Velocity
Time
A/B ratio (velocities)
PS (Peak Systole)
ED (End Diastole)

11. Measurements/calculations

(cont.)

11.03 General Doppler measurements/calculations (cont.)
PS/ED (PS/ED ratio)
ED/PS (ED/PS ratio)
AT (Acceleration Time)
ACCEL (Acceleration)
TAMAX (Time Averaged Maximum Velocity)
Volume Flow (TAMEAN and vessel area)
Heart Rate
PI (Pulsatility Index)
RI (Resistivity Index)

11.04 Real-time Doppler auto measurements/calculations
PS (Peak Systole)
ED (End Diastole)
MD (Minimum Diastole)
PI (Pulsatility Index)
RI (Resistivity Index)
AT (Acceleration Time)
ACC (Acceleration)
PS/ED (PS/ED Ratio)
ED/PS (ED/PS Ratio)
HR (Heart Rate)
TAMAX (Time Averaged Maximum Velocity)
PVAL (Peak Velocity Value)
Volume Flow (TAMEAN and Vessel Area)

11.05 OB measurements/calculations	
Gestational age by	• GS (Gestational Sac) • CRL (Crown Rump Length) • FL (Femur Length) • BPD (Biparietal Diameter) • AC (Abdominal Circumference) • HC (Head Circumference) • APTD x TTD (Anterior/Posterior Trunk Diameter by Transverse Trunk Diameter)
Trunk Diameter	• FTA (Fetal Trunk Cross-sectional Area) • HL (Humerus Length) • BD (Binocular Distance) • FT (Foot Length) • OFD (Occipital Frontal Diameter)

11.05 OB measurements/calculations *(cont.)*		
Trunk Diameter *(cont.)*	• TAD (Transverse Abdominal Diameter) • TCD (Transverse Cerebellum Diameter) • THD (Thorax Transverse Diameter) • TIB (Tibia Length) • ULNA (Ulna Length)	
Estimated Fetal Weight (EFW) by	• AC, BPD • AC, FL, HC	• AC, BPD, FL, HC
Calculations and ratios	• FL/BPD • CI (Cephalic Index) • FL/HC	• CTAR (Cardio-Thoracic Area Ratio)
SonoBiometery	• BPD • AC • FL	• HC • HL
Measurements/calculations by: ASUM, ASUM 2001, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chitty, Eik-Nes, Ericksen, Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kurtz, Mayden, Mercer, Merz, Moore, Nelson, Osaka University, Paris, Rempen, Robinson, Shepard, Shepard/ Warsoff, Tokyo University, Tokyo/Shinozuka, Yarkoni		
Fetal graphical trending		
Growth percentiles		
Multi-gestational calculations		
Fetal qualitative description (anatomical survey)		
Fetal Environmental Description (Biophysical profile)		
Programmable OB tables		
Over 20 selectable OB calculations		
Expanded worksheets		

11.06 GYN measurements/calculations
Right ovary length, width, height
Left ovary length, width, height
Uterus length, width, height
Cervix length, trace
Ovarian volume
ENDO (Endometrial thickness)
Ovarian RI
Uterine RI
Follicular measurements

11. Measurements/calculations
(cont.)

11.07 Vascular measurements/calculations
DCCA (Distal Common Carotid Artery)
MCCA (Mid Common Carotid Artery)
PCCA (Proximal Common Carotid Artery)
DICA (Distal Internal Carotid Artery)
MICA (Mid Internal Carotid Artery)
PICA (Proximal Internal Carotid Artery)
DECA (Distal External Carotid Artery)
PECA (Proximal External Carotid Artery)
VERT (VertebralVelocity)
SUBCLAV (Systolic Subclavian Velocity)
Automatic IMT

11.08 Urological calculations
Volume (Auto bladdervolume)
Prostate volume
Left/right renal volume
Generic volume
Post-void bladdervolume

12. Cardiac measurements/ calculations

12.01 B-Mode measurements	
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)
Aortic valve	• Aortic Valve Cusp Separation (AVCusp) • Aortic Valve Area Planimetry (AVA Planimetry) • (Trans AVA)
Left atrium	• Left Atrium Diameter (LA Diam) • LA Length (LA Major) • LA Width (LA Minor) • Left Atrium Area (LAA(d), LAA(s)) • Left Atrium Volume, Single Plane, Method of Disk (LAEDV A2C, LAESV A2C) (LAEDV A4C, LAESV A4C)

12.01 B-Mode measurements *(cont.)*	
Left ventricle	• 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 Mass Index (LVPWd, LVPWs) • Ejection Fraction, Teichholz/Cube (LVIDd, LVIDs) • Left Ventricle Posterior Wall Fractional Shortening (LVPWd, LVPWs) • Mitral Valve • E-Point-to-Septum Separation (EPSS) • Mitral Valve Area Planimetry (MVA Planimetry)
Pulmonic valve	Pulmonic Diameter (Pulmonic Diam)
Right ventricle	• Right Ventricle Internal Diameter (RVIDd, RVIDs) • Right Ventricle Outflow Tract Diameter (RVOT Diam)
System inferior vena cava	• Systemic Vein Diameter (Systemic Diam)

12.02 M-Mode measurements	
Aorta	• Aortic Root Diameter (Ao Root Diam) • Aortic Valve Diameter (AV Diam) • Aortic Valve Cusp Separation (AVCusp) • Aortic Valve Ejection Time (LVET)
Left atrium & Left ventricle	• Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio) • Left Atrium Diameter (LA Diam) • Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds) • Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs) • Left Ventricle Ejection Time (LVET) • Left Ventricle Pre-Ejection Period (LVPEP) • Interventricular Septum (IVS)
Mitral valve	• E-Point-to-Septum Separation (EPSS) • Mitral Valve Anterior Leaflet Excursion (D-E Excursion) • Mitral Valve D-E Slope (D-E Slope) • Mitral Valve E-F Slope (E-F Slope)

12. Cardiac measurements/ calculations *(cont.)*

12.02 M-Mode measurements *(cont.)*	
Pulmonic valve	• QRS complex to end of envelope (Q-to-PV close) • Right Ventricle Internal Diameter (RVIDd, RVIDs) • Right Ventricle Outflow Tract Diameter (RVOT Diam)) • Right Ventricle Ejection Time (RVET) • Right Ventricle Pre-Ejection Period (RVPEP)
Tricuspid valve	QRS complex to end of envelope (Q-to-TV close)

12.03 Doppler mode measurements	
Aortic valve	• 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 Deceleration Time (AV Trace) • Aortic Valve Ejection Time (AVET) • Aortic Valve Area according to PHT
Left ventricle	• Left Ventricle Outflow Tract Peak Pressure Gradient (VLOT Vmax) • Left Ventricle Outflow Tract Peak Velocity (LVOT Vmax) • Left Ventricle Outflow Tract Mean Pressure Gradient (LVOT Trace) • Left Ventricle Outflow Tract Velocity Time Integral (LVOT Trace) • Left Ventricle Ejection Time (LVET)
Mitral valve	• Mitral Valve Regurgitant Mean Velocity (MR Trace) • Mitral Regurgitant Mean Pressure Gradient (MR Trace) • Mitral Regurgitant Velocity Time Integral (MR Trace) • Mitral Valve Mean Velocity (MR Trace) • Mitral Valve Velocity Time Integral (MR Trace) • Mitral Valve Mean Pressure Gradient (MR Trace) • Mitral Regurgitant Peak Pressure Gradient (MR Vmax) • Mitral Valve Peak Pressure Gradient (MR Vmax)

12.03 Doppler mode measurements *(cont.)*	
Mitral valve *(cont.)*	• Mitral Regurgitant Peak Velocity (MR Vmax) • Mitral Valve Peak Velocity (MR Vmax) • Mitral Valve Velocity Peak A (MV A Velocity) • Mitral Valve Velocity Peak E (MV E Velocity) • Mitral Valve Area according to PHT (MV PHT) • Mitral Valve 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 Acceleration Time/ Deceleration Time Ratio (MVAcc/ Dec. Time)
Pulmonic valve	• Pulmonic Insufficiency Peak Pressure Gradient (PR Vmax) • Pulmonic Insufficiency End-Diastolic Pressure Gradient (PR Trace) • Pulmonic Valve Peak Pressure Gradient (PV Vmax) • Pulmonic Insufficiency Peak Velocity (PR Vmax) • Pulmonic Insufficiency End-Diastolic Velocity (Prend Vmax) • Pulmonic Valve Peak Velocity (PV Vmax) • Pulmonary Artery Diastolic Pressure (PV Trace) • Pulmonic Insufficiency Mean Pressure Gradient (PR Trace) • Pulmonic Valve Mean Pressure Gradient (PV Trace) • Pulmonic Insufficiency Mean Square Root Velocity (PR Trace) • Pulmonic Insufficiency Velocity Time Integral (PR Trace) • Pulmonic Valve Mean Velocity (PV Trace) • Pulmonic Valve Velocity Time Integral (PV Trace) • Pulmonic Insufficiency Pressure Half Time (PR PHT) • Pulmonic Valve Flow Acceleration (PV Acc Time) • Pulmonic Valve Acceleration Time (PV Acc Time) • Pulmonic Valve Ejection Time (PVET) • QRS complex to end of envelope (Q-to-PV close) • Pulmonic Valve Acceleration to Ejection TIme Ratio (PV Acc Time, PVET)

12. Cardiac measurements/ calculations *(cont.)*

12.03 Doppler mode measurements *(cont.)*	
Right ventricle	• Right Ventricle Outflow Tract Peak Pressure Gradient (RVOT Vmax) • Right Ventricle Outflow Tract Peak Velocity (RVOT Vmax) • Right Ventricle Outflow Tract Velocity Time Integral (RVOT Trace) • Right Ventricle Ejection Time (RV Trace) • Stroke Volume by Pulmonic Flow (RVOT Planimetry, RVOT Trace) • Right Ventricle Stroke Volume Index by Pulmonic Flow (RVOT Planimetry, RVOT Trace)
System	• Pulmonary Artery Peak Velocity (PV Vmax) • Pulmonary Vein Velocity Peak A (reverse) (P Vein A) • Pulmonary Vein Peak Velocity (P Vein D, P Vein S) • Systemic Vein Peak Velocity (PDA Diastolic, PDA Systolic) • Ventricular Septal Defect Peak Velocity (VSD Vmax) • Atrial Septal Defect (ASD Diastolic, ASD Systolic) • Pulmonary Vein A-Wave Duration (P Vein A Dur) • IsoVolumetric Relaxation Time (IVRT) • IsoVolumetric Contraction Time (IVCT) • Pulmonary Vein S/D Ratio (P Vein D, P Vein S) • Ventricular Septal Defect Peak Pressure Gradient (VSD Vmax) • Pulmonic-to-Systemic Flow Ratio (Qp/Qs)
Tricuspid valve	• Tricuspid Regurgitant Peak Pressure Gradient (TR Vmax) • Tricuspid Valve Peak Pressure Gradient (TV Vmax) • Tricuspid Regurgitant Peak Velocity (TR Vmax) • Tricuspid Valve Peak Velocity (TV Vmax) • Tricuspid Valve Velocity Peak A (TV A Velocity) • Tricuspid Valve Velocity Peak E (TV E Velocity) • Tricuspid Regurgitant Mean Pressure Gradient (TR Trace) • Tricuspid Valve Mean Pressure Gradient (TV Trace) • Tricuspid Regurgitant Velocity Time Integral (TR Trace) • Tricuspid Valve Mean Velocity (TV Trace) • Tricuspid Valve Velocity Time Integral (TV Trace)

12.03 Doppler mode measurements *(cont.)*	
Tricuspid valve *(cont.)*	• Tricuspid Valve Time to Peak (TV Acc/Dec Time) • Tricuspid Valve Ejection Time (TV Acc/Dec Time) • Tricuspid Valve A-Wave Duration (TV A Dur) • QRS complex to end of envelope (Q-to-TV close) • Tricuspid Valve Pressure Half Time (TV PHT) • Tricuspid Valve E-Peak to A-Peak Ratio (TV E/A Velocity

12.04 Color Flow Mode measurements	
Aortic valve	• Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace) • Proximal Isovelocity Surface Area: Regurgitant Volume Flow (AR Trace) • Proximal Isovelocity Surface Area: Aliased Velocity (AR Vmax)
Mitral valve	• Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) • Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) • Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax)

12.05 Combination mode measurements	
Aortic valve	• Aortic Valve Area (Ao Diam., LVOT Vmax, AV Vmax) • Aortic Valve Area by Continuity Equation by Peak Velocity (Ao 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 Diam, LVOT Vmax, AV Trace)
Left ventricle	Cardiac Output, Teichholz/Cubic (LVIDd, LVI Ds, HR)
Mitral valve	• Stroke Volume by Mitral Flow (MVA Planimetry, MV Trace) • Cardiac Output by Mitral Flow (MVA Planimetry, MV Trace, HR)

12. Cardiac measurements/ calculations *(cont.)*

12.06 Cardiac worksheet
Parameter: Lists the mode, the measurement folder and the specific measurement
Measured Value: Up to six measurement values for each item. Average, maximum, minimum, or last
Generic study in cardiology

13. Probes

13.01 4C-RS	
Convex probe	
Applications	Abdominal, OB/GYN, Vascular, Urological, Thoracic, Pediatric, MSK
Number of elements	128
Convex radius	60 mm
FOV	58°
Footprint	66.2 x 18.3 mm
B-Mode imaging frequency	2.0, 3.0, 4.0, 5.0 MHz
Harmonic imaging frequency	3.0, 4.0, 5.0 MHz
CFM/PDI/PWD frequency	2.0 MHz (CFM/PDI) 2.5, 2.8, 3.3 MHz
Biopsy guide	Multi-angle, reusable bracket

13.02 L6-12-RS	
Linear probe	
Applications	Vascular, Small parts, Pediatrics, MSK, Thoracic
Number of elements	128
Footprint	47 x 11.4 mm
B-Mode imaging frequency	6.0, 8.0, 10.0, 11.0 MHz
Harmonic imaging frequency	8.0, 10.0, 12.0, 13.0 MHz
CFM/PDI frequency	4.0, 5.0, 6.0 MHz
PWD frequency	4.0, 4.5, 5.0 MHz
Steered angle	±20°
Biopsy guide	Multi-angle, reusable bracket

13.03 12L-RS	
Linear probe	
Applications	Vascular, Small parts, Pediatrics, MSK, Thoracic
Number of elements	192
Footprint	47.1 x 12.7 mm
B-Mode imaging frequency	6.0, 8.0, 10.0, 12.0 MHz
Harmonic imaging frequency	8.0, 10.0, 12.0, 13.0 MHz
CFM/PDI/PWD frequency	4.2, 6.3, 7.7 MHz
Steered angle	±20°
Biopsy guide	Multi-angle, reusable bracket

13.04 E8Cs-RS	
Endo micro convex probe	
Applications	OB/GYN, Urological, Transvaginal, Transrectal
Number of elements	128
Convex radius	8.73 mm
FOV	168°
Footprint	18.6 x 13.9 mm
B-Mode imaging frequency	6.0, 8.0, 10.0 MHz
Harmonic imaging frequency	7.0, 8.0, 10.0 MHz
CFM/PDI/PWD frequency	4.0, 5.0, 6.0 MHz
Biopsy guide	Fixed angle, disposable or reusable bracket

13.05 LK760-RS	
Linear probe	
Applications	MSK
Number of elements	128
Footprint	67.0 x 13.0 mm
B-Mode imaging frequency	5.0, 7.0, 9.0 MHz
Harmonic imaging frequency	6.0, 8.0, 10.0 MHz
CFM/PDI/PWD frequency	3.5, 4.2, 5.0 MHz
Steered angle	±10°
Biopsy guide	Not available

13. Probes *(cont.)*

13.06 E8C-RS	
Endo micro convex probe	
Applications	OB/GYN, Urological, Transvaginal, Transrectal
Number of elements	128
Convex radius	10.73 mm
FOV	128°
Footprint	16.9 x 21.2 mm
B-Mode imaging frequency	6.0, 8.0, 10.0 MHz
Harmonic imaging frequency	7.0, 8.0, 10.0 MHz
CFM/PDI/PWD frequency	4.2, 5.0, 6.3 MHz
Biopsy guide	Fixed angle, disposable or reusable bracket

13.07 8C-RS	
Micro convex probe	
Applications	Pediatrics, Pediatric Cardiac, MSK
Number of elements	128
Convex radius	10.73 mm
FOV	131°
Footprint	22.0 x 12.0 mm
B-Mode imaging frequency	6.0, 8.0, 10.0 MHz
Harmonic imaging frequency	6.0, 7.0, 8.0, 10.0 MHz
CFM/PDI/PWD frequency	4.2, 5.0, 6.3 MHz
Biopsy guide	Not available

13.08 3Sc-RS	
Phased array sector probe	
Applications	Cardiac, Vascular, Transcranial, Thoracic, Abdominal
Number of elements	64
FOV	120°
Footprint	23.7 x 18.4 mm
B-Mode imaging frequency	2.0, 3.0, 4.0 MHz
Harmonic imaging frequency	3.0, 3.2, 3.5, 4.0 MHz
CFM/PDI/PWD frequency	1.7, 2.0, 2.5, 3.3 MHz
CWD frequency	1.9 MHz
Biopsy guide	Multi-angle, reusable bracket

13.09 6S-RS	
Phased array sector probe	
Applications	Cardiac, Vascular, Transcranial, Pediatrics
Number of elements	64
FOV	120°
Footprint	23.5 x 16.8 mm
B-Mode imaging frequency	4.0, 5.0, 6.0 MHz
Harmonic imaging frequency	4.0, 5.0, 6.0, 7.0 MHz
CFM/PDI/PWD frequency	2.5 (CFM/PDI), 3.0, 4.0, 4.5 MHz
CWD frequency	4.2 MHz
Biopsy guide	Not available

13.10 12S-RS	
Phased array sector probe	
Applications	Pediatrics, Pediatric Cardiac, Vascular, Transcranial
Number of elements	96
FOV	120°
Footprint	17.6 x 13.2 mm
B-Mode imaging frequency	6.0, 8.0, 10.0, 11.0 MHz
Harmonic imaging frequency	9.0, 10.0, 12.0 MHz
CFM/PDI/PWD frequency	4.1 (CFM/PDI), 4.5, 5.0, 5.6, 6.7 MHz
CWD frequency	4.2, 5.0, 6.2 MHz
Biopsy guide	Not available

13.11 9L-RS	
Linear probe	
Applications	Vascular, Small parts, Pediatrics, MSK, Abdominal, Thoracic
Number of elements	192
Footprint	53 x 14.1 mm
B-Mode imaging frequency	5.0, 7.0, 9.0 MHz
Harmonic imaging frequency	6.0, 8.0, 10.0 MHz
CFM/PDI/PWD frequency	4.0, 5.0 MHz
Steered angle	±20°
Biopsy guide	Multi-angle, reusable bracket

13. Probes *(cont.)*

13.12 L8-18i-RS	
Linear probe	
Applications	MSK, Small parts, Vascular
Number of elements	168
Footprint	34.8 x 11.1 mm
B-Mode imaging frequency	8.0, 12.0, 14.0, 16.0 MHz
Harmonic imaging frequency	9.0, 15.0, 18.0 MHz
CFM/PDI/PWD frequency	6.7, 8.3, 10.0 MHz
Steered angle	±20°
Biopsy guide	Not available

13.13 RAB2-6-RS*	
Convex Volume Probe	
Applications	Abdominal, OB/GYN, Urological
Number of elements	128
Convex radius	47.1 mm
Footprint	62.2 x 34.0 mm
Volume sweep radius	24.11 mm
FOV	70° (B), 70° x 84° (volume scan)
B-Mode imaging frequency	3.0, 4.0, 5.0 MHz
Harmonic imaging frequency	4.0, 5.0, 6.0 MHz
CFM/PDI/PWD frequency	2.0, 2.5, 3.0, 4.0 MHz
Biopsy guide	Multi-angle, reusable bracket

14. Cart (optional)

The ergonomic trolley cart, features 4 easy on – off lockable 120 mm diameter wheels, system mounting, power cord hooks and clips for neat arrangement of power cords, probe holders with cord management holder, and gel holder.

Advanced cart* features optional 3PP, 4D box, power transformer, big battery, height-adjustability.

14.01 Cart dimension	
Dimensions	• Base Cart – L 555 x D 515 x H 890 mm • Advanced Cart* – L 556 x D 585 x H 920 mm (Fixed) – L 556 x D 585 x H 900~1190 mm (Height-adjustable)
Weight	• Base Cart – 21 Kg • Advanced Cart* – ≤ 35 Kg

14.02 Printer shelf (optional)	
Dimensions	• Base Cart – L 293 x D 217 x H 122 mm • Advanced Cart* – L 300 x D 204 x H 134 mm

14.03 Cart tray (optional)	
The cart tray offers storage space for accessories	
Dimensions	• Base Cart – L 305 x D 222 x H 77 mm • Advanced Cart* – L 343 x D 177 x H 65 mm – L 296 x D 143 x H 200 mm

14.04 3PP (optional)*	
The advanced cart is compatible with optional three external probe port extensions	
Dimensions: L 217 mm X D 52 mm X H 126 mm	

14.05 Power Transformer(optional)*	
Power transformer offers external power supply	
Dimensions	• Advanced Cart – L 276 x D 197 x H 106 mm

14.06 4D Box (optional)*	
4D scanning function	
Dimensions	• Advanced Cart – L 230 x D 87 x H 50 mm

14.07 Big Battery (optional)*	
Big battery case offers extended battery supply	
Dimensions	• Advanced Cart – L 206 x D 132 x H 296 mm

14.08 ECG Module Shelf (optional)*	
Dimensions	• Advanced Cart – L 262 x D 70 x H 55 mm

14.09 GYN probe holder (optional)	
Horizontal positioning of endocavitary probe	
Dimensions	L 217 mm X D 52 mm X H 126 mm

14. Cart (optional) *(cont.)*

14.10 Gel Warmer (optional)*	
Dimensions	• Advanced Cart – L 80 x D 80 x H 155 mm

14.11 Dimension with additional options	
Dimensions	• Cart – L 555 x D 590 x H 950 mm • Advanced Cart* – L 556 x D 585 x H 980 mm – L 556 x D 585 x H 960~1250 mm
Weight	• Cart – 23 Kg • Advanced Cart* – ≤ 47 Kg

15. Trolley case

The case features 3 protective compartments for the probes, and 3 additional compartments for power adapters, cord, and manuals.

15.01 Dimension
L 495 x D 275 x H 460 mm
Weight: 4 kg

16. Inputs and outputs

16.01 Inputs and outputs
HDMI output(1920 x 1080 resolution)
S-video and composite output with optional adapter*
1000 BASE-TX Ethernet (RJ45)
4 USB ports

17. Safety conformance

The Versana Active is CE marked to Council Directive 93/42/EEC on medical devices

Conforms to the following standards for safety	• IEC 60601-1 Medical electrical equipment – Part 1: General requirements for basic safety and essential performance • IEC 60601-1-2 Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – requirements and tests EMC Emissions Group 1 Class A device requirements as per CISPR 11 • IEC 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment • ISO 10993-1 Biological evaluation of medical devices – Part 1 Evaluation and testing within a risk management process • EN 62366-1 Medical devices –Part 1: Application of usability engineering to medical devices

GE HealthCare

*Available on Versana Active v1.5.

Products mentioned in the material may be subject to government regulations and may not be available in all countries. Shipment and effective sale can only occur after approval from the regulator. Please check with local GE HealthCare representative for details.

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