GE HealthCare

Versana Balance™

Ultrasound system

Specification sheet

Versana Balance ultrasound helps you provide reliable care with no compromise on quality. This practical, competent system delivers comprehensive scanning for diagnosis and monitoring in private clinics, GP offices, and other primary care settings. Designed for clinicians who have used ultrasound and wish to upgrade their capability, the affordable Versana Balance combines design, workflow and features developed to meet users' demanding requirements.

Contents

General specifications

Dimensions and weight	
Height with monitor	• Fixed – 1375 mm (51.3 in) • Height adjustable – Max. 1500 mm (59.1 in) – Min. 1340 mm (52.7 in)
Width	• Keyboard: 585 mm (23.0 in) • Caster: 513 mm (20.2 in)
Depth	• Maximum: 670 mm (26.4 in) • Caster: 580 mm (22.8 in)
Weight (no peripherals)	Less than 60 kg

Electrical power
Voltage 100 – 240 VAC
Frequency 50/60 Hz
Power consumption maximum of 350 VA with peripherals

Control Design
Max. 4 active probe ports
Integrated SSD (512 GB)
Integrated speakers
Probe holders, removable for cleaning and washing
Gel holder, removable for cleaning and washing
Gel warmer
Front and rear handles
Probe cable management slots
Easily removable air filters
Wheels: Locking mechanism that provides rolling lock and caster swivel lock

User interface

Operator keyboard
Height adjustable (configuration dependent)
Full alphanumeric keypad covered with washable protection film
8 TGC pods
21.5'' (476.1 x 267.8 mm) 1920 x 1080 high-resolution LED backlit

Monitor
Fixed monitor arm
Tilt/rotate/pan
Tilt angle: +25˚/-90˚
Rotate angle: -90˚, +90˚
Brightness/contrast/color temperature adjustment
Fold-down for transportation

System overview

System specifications	
Operating system	Windows® 10
Fast boot up time	<25 seconds
Cold boot up time	<120 seconds

Applications
Abdominal
Obstetrical
Gynecological
Small parts
Musculoskeletal
Vascular/peripheral vascular
Urological
Pediatric
Cardiac
Thoracic
Transcranial
Transvaginal
Transrectal
Interventional guidance

Scanning methods
Electronic convex
Electronic linear
Electronic micro convex

System overview *(cont.)*

Scanning methods *(cont.)*
Electronic sector
Mechanical volume sweep

Transducer type
Convex array
Linear array
Microconvex array
Sector phased array
Volume probe (4D)

Operating modes
B-Mode
Coded Harmonic Imaging
M-Mode
Color M-Mode
Color Flow Mode (CFM)
Power Doppler Imaging (PDI)
Directional PDI
PW Doppler with high PRF

System standard features

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

System options

CW Doppler Mode
Anatomical and Curved M-Mode (AMM and Curved AMM)
LOGIQ™ View
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)
Static 3D/Real-time 4D
Auto IMT

System options *(cont.)*

TUI	
Thyroid productivity	A package in thyroid measurement including measurement and relevant description (Includes TI-RADS® ACR)
Needle recognition	
Follow-up Tool	
WhizzLabel	
Elastography	
BreastCare	
Vocal	
Contrast	
LI-RADS	

Peripheral options

Sony UP-D898MD B/W thermal printer
Sony UP-D898DC B/W thermal Printer
Sony UP-D25MD Color 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
Barcode scanner

Display modes

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 + PW/M • Real-time triplex mode (B + CFM/ PDI + PW)	• B + CFM/PDI • B + CFM + M • B + B-Flow/ B-Flow Color

Live and stored display format *(cont.)*		
Zoom	Write (HD)/read up to 67X	
Colorized Image	• Colorized B • Colorized M • Colorized CW • Colorized 4D	• Colorized B-Flow • Colorized PW • 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)	
LOGIQ View		
Virtual Convex		
TUI (Tomography Ultrasound Imaging)		

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

Display annotation

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: 4 types selectable	• MM/DD/YYYY • YYYY/MM/DD	• DD/MM/YYYY • YYYY-MM-DD

Display annotation *(cont.)*

General user interface *(cont.)*	
Time format: 2 types selectable	• 24 hours • 12 hours
Gestational age from	• LMP • GA • EDD • 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	

B-Mode
Gain
Dynamic range
Imaging frequency
Edge enhance
Frame average
Frame rate
Gray map
SRI-HD
CrossXBeam

Color Flow Mode
Line density
Frame average
Packet size
Color velocity range and baseline
Color threshold marker
Color gain
Inversion
Frequency

PDI mode
Line Density
Frame Average
Packet Size
Directional PDI
Color Velocity Range and Baseline
Power Threshold Marker
PDI Gain
Inversion

B-Flow/B-Flow Color Mode
Gain
Background
SRI HD
Accumulation
Flow Type/Model
Rejection
Colorize
Edge Enhance
Gray Map
Frame Average
Power Output
Sensitivity/PRI
Dynamic Range
Frequency
Suppression
Flash Suppression
Edge Enhancement
Threshold
Map Compress
Map
Wall Filter
Transparency

Display annotation *(cont.)*

M-Mode
Gain
Dynamic Range (Use the Dynamic Range of B-Mode)
Time Scale
AMM

Doppler Mode
Gain
Angle Correct
Sample Volume Depth and Sample Volume Length
Wall Filter
Baseline
Spectrum Inversion
Time Scale/Sweep Speed
Scale
Doppler Frequency

3D/4D
Tile/Mix
Active Curve
Reset Curve
Lower Threshold
Volume Angle
B Quality
3D Orient
Render Mode
Colorize
Direction
Rend 1 Gray
Rend 2 Gray
Adv. Rend
Transparency
Ref Image
Cut Mode
Cut Depth
Depth
Rotational Angle

3D/4D *(cont.)*
Step Angle
Rotation Axis
Start Angle
End Angle
Loop Speed

Easy 3D
Utilities
Texture
Gray Surface
Render
Threshold1
Threshold2
Scan Distance
Colorize

Advanced 3D
DefineAxis
Group Planes
Reslice
Tile

General system parameters

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	
Customized comment home position	

General system parameters *(cont.)*

System scanning parameters
Digital Agile Beamformer Architecture
7,411,810 system processing channels
Max. Frame Rate: 1790 fps, probes and modes dependent
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 and application dependent
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˚

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
Maximum frame rate	≥ 1449 fps
Gray scale map	6 or 8 types, probe and application dependent
B colorization	9 types
Frequency	Up to 4 selectable, probe dependent
Line density	992, 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

B-Mode *(cont.)*	
Focus width	3 types
Suppression	6 steps
Edge enhance	7 steps
Rejection	Up to 9 steps, probe dependent
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

Coded 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 map	6 or 8 types, probe and application dependent
Tint map	9 types
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	Up to 9 steps, probe dependent
Frequency	Up to 4 steps, probe dependent

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

General system parameters *(cont.)*

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, 12L-RS, LK760-RS, L8-18i-RS		

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
Maximum frame rate	≥ 1449 fps
PRF	0.1 – 27.8 KHz
Spatial filter	6 steps
Gain	0 – 40 dB, 0.5 dB per step
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	19 types, probe and application dependent
Transparent map	5 steps
Color threshold	0 – 100%, 10% per step
Accumulation	8 steps

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 – 27.8 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

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

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

General system parameters *(cont.)*

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
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

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

Continues Wave Doppler Mode *(cont.)*	
Wall filter	5.5 – 5000 Hz, 27 steps, probe and application dependent
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 • 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	

Cine memory/image memory	
384 MB of Cine memory	
Selectable Cine sequence for Cine review	
Maximum number of cine loops	410691 images
Cine loop capacity	• B-Mode: 919 seconds • M-Mode: 423 seconds • CFM Mode: 4,978 seconds • PW Mode: 27,983 seconds • CW Mode: 27,962 seconds
Prospective Cine mark	
Measurements/calculations and annotations on Cine playback	
Scrolling timeline memory	
Dual image Cine display	
Quad image Cine display	
Cine gauge and Cine image number display	
Cine review loop	
Cine review speed	11 steps (11, 13, 14, 17, 22, 25, 31, 48, 100, 200, 400%)

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	

General system parameters *(cont.)*

Image storage *(cont.)*	
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, 4 x 4 and thumbnails
Storage devices	• Internal hard drive partition of 299 GB for image storage • External USB HDD and USB memory stick support for Import, Export, DICOM Read, SaveAs • CD-RW storage: 700 MB • DVD storage: -R (4.4 GB)

Connectivity and DICOM	
Ethernet network connection	• DICOM 3.0 • 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) • RSVP Remote capability

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

LOGIQ View (option)
Extended Field of View Imaging
Available on 4C-RS, L6-12-RS, 8C-RS, 3Sc-RS, E8C-RS, E8Cs-RS, 6S-RS, LK760-RS, 12L-RS, RAB2-6-RS, 12S-RS, L8-18i-RS probes
For use in B-Mode
CrossXBeam is available on linear probes
Auto detection of scan direction

LOGIQ View (Option) *(cont.)*
Post-process zoom
Rotation
Auto fit on monitor
Measurements in B-Mode
Up to 60 cm scan length

Easy 3D (Option)
Allows unlimited rotation and planar translations
3D reconstruction from Cine sweep
Threshold1: 0 – 255
Utilities: Average off/Average light/Average medium/Average Strong
Grey surface: Off/On
Scan distance: 1.0 – 15.0
Threshold2: 0 – 255
Colorize: 0 – 360

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

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		

General system parameters *(cont.)*

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

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: 1x1/1x2/2x2/3x3/4x4 • Slices: 3 – 19 • Slices distance: 0.5 – 40 mm
Real-time 4D	• 4D Volume Cine • LoopSpeed: 6-400 • Run/Stop
Niche	
VOCAL (option): Virtual Organ Computer-aided Analysis	

B-Flow (option)

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

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

TVM (option)

TVI with M-Mode active

Available on the sector probes

Provides both myocardium motion velocity and direction

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 (bullseye and segmental) • Smart stress: Automatically set up various scanning parameters (geometry, frequency, gain, etc.) according to same projection on previous level

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.

Needle recognition (option)

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

General system parameters *(cont.)*

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 and animations to depict information related to each step. It covers five applications.

- Abdomen
- Obstetrics
- Gynecology
- Cardiology
- Vascular

My Trainer

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

Battery (option)

The lithium ion battery provides power when an AC power source is not available. About 15 minutes of battery life can be expected with fully charged battery in use to supply power to the system.

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.

RSVP

RSVP is a direct link with a GE HealthCare Online Service Engineer or Applications Support Engineer or a Request for Service.

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.

Whizz CF Mode

Whizz CF Mode dynamically optimizes CF mode parameters in real time, enabling optimal, consistent image quality and measurements.

Whizz Label

Whizz Label can simplify the workflow by annotating ultrasound images automatically for documentation purposes similar to manual annotation of ultrasound images.

V-Live

V-Live offers the ability to customize light source directions in 3D mode, enabling focused clarity, on targeted region of interest.

Lateral Gain Compensation (LGC)

To set Lateral Gain Compensation values based on LGC curves defined by a user; By laterally adjusting the received signal intensity, the uniformity of a B-Mode image intensity is optimized in lateral direction.

Elastography (option)

Available on 4C-RS, L6-12-RS, 12L-RS, E8Cs-RS

- 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

LI-RADS ACR (option)

The Ultrasound Liver Imaging Reporting And Data System (US LI-RADS) is a standardized system for imaging technique, interpretation, reporting, and data collection for screening or surveillance ultrasound exams in patients at risk for developing hepatocellular carcinoma (HCC).

e-Delivery

Electronic software delivery. As part of the product lifecycle management, GE HealthCare regularly analyzes and integrates software updates into our products.

Probe Check

Probe assessment tool that evaluates probe elements to monitor potential probe deterioration over probe life cycle.

General system parameters *(cont.)*

Contrast agency detection (option) *(cont.)*	
Available on 4C-RS	• Line density: 0, 1, 2, 3, 4 • SRI HD: 0, 1, 2 • Suppression: 0, 1, 2, 3, 4, 5 • Frame average: 0, 1, 2, 3, 4, 5, 6, 7 • Dynamic range: 36 – 96 dB • Rotation: Up/down • Modes: General, Resolution and Penetration, Frequencies • Display tissue image and contrast-enhanced image simultaneously in split screen • 2 contrast timers • Time delay: 0.3 – 10 seconds • Accumulation mode: 8 steps • Maximum Enhance Mode: On/Off • Gray scale map: 10 types • Colorization: On/Off, 6 steps • Flash • Time Intensity Curve (TIC) Analysis • Auto MI control • Time trigger scan: 0.3 – 10 seconds; from 0.5 seconds to 10 seconds, 0.5 seconds per step • Flash/burst mode • Contrast tech: AM • Single view/dual view • Visualization: Contrast, Tissue • Hybrid Contrast • Hybrid map: 6 types

Controls available while "live"		
Write Zoom		
B/M-Mode	• Gain • Dynamic Range • Transmission Focus Position • Line Density Control • Sweep Speed for M-Mode	• TGC • Acoustic Output • Transmission Focus Number • Number of Angles for CrossXBeam
PW-Mode	• Gain • Acoustic Output • Transmission Frequency • Scale • Wall Filter	• Sample Volume Gate – Length – Depth • Volume

Controls available while "live" *(cont.)*		
Color Flow Mode	• CFM Gain • Acoustic Output • Wall Filter • Line Density • CFM Frame Average	• CFM Velocity Range • Packet Size • CFM Spatial Filter • Frequency/ Velocity Baseline Shift

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
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

Measurements/calculations

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

General M-Mode
M-Depth
Distance
Time
Slope
Heart rate

General Doppler measurements/calculations
Velocity
Time
A/B ratio (velocities)
PS (Peak Systole)
ED (End Diastole)
PS/ED (PS/ED ratio)
ED/PS (ED/PS ratio)
AT (Acceleration Time)
ACCEL (Acceleration)
TAMAX (Time Averaged Maximum Velocity)
Volume Flow (TAMEAN and vessel area)
Heart Rate
PI (Pulsatility Index)
RI (Resistivity Index)

Real-time Doppler Auto measurements/calculations
PS (Peak Systole)
ED (End Diastole)
MD (Minimum Diastole)
PI (Pulsatility Index)
RI (Resistivity Index)

Real-time Doppler Auto measurements/calculations *(cont.)*
AT (Acceleration Time)
ACC (Acceleration)
PS/ED (PS/ED Ratio)
ED/PS (ED/PS Ratio)
HR (Heart Rate)
TAMAX (Time Averaged Maximum Velocity)
PVAL (Peak Velocity Value)
Volume Flow (TAMEAN and Vessel Area)

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) • 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 • FL/HC • CI (Cephalic Index)	• CTAR (Cardio-Thoracic Area Ratio)
SonoBiometery	• BPD • AC • FL	• HC • HL
Measurements/calculations by: ASUM, ASUM 01, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chitty, Eik-Nes, Eriksen, Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kurtz, Mayden, Mercer, Merz, Moore, Nelson, Osaka, Paris, Rempen, Robinson, Shepard, Shepard/Warsoff, Tokyo, Tokyo/Shinozuka, Yarkoni		
Fetal graphical trending		
Growth percentiles		
Multi-gestational calculations		

Measurements/calculations *(cont.)*

OB measurements/calculations *(cont.)*
Fetal qualitative description (anatomical survey)
Fetal Environmental Description (Biophysical profile)
Programmable OB tables
Over 20 selectable OB calculations
Expanded worksheets

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

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 (Vertebral Velocity)
SUBCLAV (Systolic Subclavian Velocity)
Automatic IMT

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

Cardiac measurements/calculations

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 (AV Cusp) • Aortic Valve Area Planimetry (AVA Planimetry) • (Trans AVA)
Left atrium	• Left Atrium Diameter (LA Diam) • LA Length (LA Major) • LA Width (LA Minor) • Left Atrium Area (LAA(d), LAA(s)) • Left Atrium Volume, Single Plane, Method of Disk (LAEDV A2C, LAESV A2C) (LAEDV A4C, LAESV A4C)
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)

Cardiac measurements/calculations
(cont.)

M-Mode measurements	
Aorta	• Aortic Root Diameter (Ao Root Diam) • Aortic Valve Diameter (AV Diam) • Aortic Valve Cusp Separation (AV Cusp) • 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)
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)

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

Doppler Mode measurements *(cont.)*	
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) • 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 (PRTrace) • Pulmonic Valve Peak Pressure Gradient (PV Vmax) • Pulmonic Insufficiency Peak Velocity (PR Vmax) • Pulmonic Insufficiency End-Diastolic Velocity (Prend Vmax)

Cardiac measurements/calculations
(cont.)

Doppler Mode measurements *(cont.)*	
Pulmonic valve	• Pulmonic Valve Peak Velocity (PV Vmax) • Pulmonary Artery Diastolic Pressure (PV Trace) • Pulmonic Insufficiency Mean Pressure Gradient (PR Trace) • Pulmonic Valve Mean Pressure Gradient (PV Trace) • Pulmonic Insufficiency Mean Square Root Velocity (PR Trace) • Pulmonic Insufficiency Velocity Time Integral (PR Trace) • Pulmonic Valve Mean Velocity (PV Trace) • Pulmonic Valve Velocity Time Integral (PV Trace) • Pulmonic Insufficiency Pressure Half Time (PR PHT) • Pulmonic Valve Flow Acceleration (PV Acc Time) • Pulmonic Valve Acceleration Time (PV Acc Time) • Pulmonic Valve Ejection Time (PVET) • QRS complex to end of envelope (Q-to-PV close) • Pulmonic Valve Acceleration to Ejection TIme Ratio (PV Acc Time, PVET)
Right ventricle	• Right Ventricle Outflow Tract Peak Pressure Gradient (RVOT Vmax) • Right Ventricle Outflow Tract Peak Velocity (RVOT Vmax) • Right Ventricle Outflow Tract Velocity Time Integral (RVOT Trace) • Right Ventricle Ejection Time (RV Trace) • Stroke Volume by Pulmonic Flow (RVOT Planimetry, RVOT Trace) • Right Ventricle Stroke Volume Index by Pulmonic Flow (RVOT Planimetry, RVOT Trace)
System	• Pulmonary Artery Peak Velocity (PV Vmax) • Pulmonary Vein Velocity Peak A (reverse) (P Vein A) • Pulmonary Vein Peak Velocity (P Vein D, P Vein S) • Systemic Vein Peak Velocity (PDA Diastolic, PDA Systolic) • Ventricular Septal Defect Peak Velocity (VSD Vmax) • Atrial Septal Defect (ASD Diastolic, ASD Systolic) • Pulmonary Vein A-Wave Duration (P Vein A Dur) • IsoVolumetric Relaxation Time (IVRT)

12.03 Doppler Mode measurements *(cont.)*	
System *(cont.)*	• 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) • 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)

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)

Cardiac measurements/calculations
(cont.)

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)

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

Probes

4C-RS	
Convex probe	
Applications	Abdominal, OB, GYN, Vascular, Urology, Thoracic, Pediatric, MSK, Interventional Guidance
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

L6-12-RS	
Linear probe	
Applications	Vascular, Pediatric, Small Parts, MSK, Thoracic, Interventional Guidance
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

12L-RS	
Linear probe	
Applications	Vascular, Pediatric, Small Parts, MSK, Thoracic, Interventional Guidance
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

L8-18i-RS	
Linear probe	
Applications	Vascular, Small Parts, MSK Superficial
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 MHz
Steered angle	±20°
Biopsy guide	Not available

Probes *(cont.)*

LK760-RS	
Linear probe	
Applications	MSK, Interventional Guidance
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

E8C-RS	
Endo micro convex probe	
Applications	OB, GYN, Urology, Transvaginal, Transrectal, Interventional Guidance
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

8C-RS	
Micro convex probe	
Applications	Pediatric, MSK, Cardiac, Pediatric, Transcranial, Interventional Guidance
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

3Sc-RS	
Phased array sector probe	
Applications	Cardiac, Abdominal, Vascular, Transcranial, Thoracic, Interventional Guidance
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

6S-RS	
Phased array sector probe	
Applications	Cardiac Pediatric, Vascular, Pediatric, Transcranial, Interventional Guidance
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

Probes *(cont.)*

RAB2-6-RS	
Convex Volume Probe	
Applications	Abdominal, OB, GYN, Urology, Interventional Guidance
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), 84° x 70° (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
Sweep speed	450°/s

E8CS-RS	
Endo micro convex probe	
Applications	OB, GYN, Urology, Transvaginal, Transrectal, Interventional Guidance
Number of elements	128
Convex radius	8.73 mm
Footprint	18.6 x 13.9 mm
FOV	168°
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

12S-RS	
Phased array sector probe	
Applications	Vascular, Pediatric, Cardiac, Pediatric, Transcranial, Interventional Guidance
Number of elements	96
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	4.19 (CF/PDI), 4.5, 5.0, 5.6, 6.7 MHz
CW frequency	4.2, 5.0, 6.2 MHz
Biopsy guide	Not available

Inputs and outputs

CVBS output (RCA)
S-Video output
VGA output (1920 x 1080 resolution)
HDMI output (1920 x 1080 resolution)
Audio line-out (RCA)
Ethernet (RJ45)
USB (3x in rear, 1 beside keyboard)

Safety conformance

The Versana Balance 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

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