

LOGIQ[®] e

This is huge. General Imaging Suite.

Product Description

The LOGIQ e is a high performance multipurpose color compact ultrasound system, which includes many new imaging technologies to help improve your diagnostic confidence. B-Steer Plus combines two GE technologies, B-Steer and CrossXBeam™, so you can see both anatomy and the needle in one image with amazing clarity. Virtual apex on phased array probes provides a wider field of view. The LOGIQ e is designed for cardiac, abdominal, obstetrics, gynecology, vascular, musculoskeletal, small parts, pediatric, neonatal, nerve block (assisting needle guidance in the administration of peripheral nerve block), urology and intraoperative applications.



TruScan™ Architecture

GE's exclusive, software-intensive ultrasound imaging platform gives you computational power, image-manipulation capability, workflow flexibility and product upgradeability.

- **TruAccess-** is the GE-exclusive, Raw Data processing technology that will change the future of ultrasound imaging. By accessing Raw Data, TruAccess applies live scanning techniques to stored image data. This maintains excellent image quality and helps ensure efficient image management.

- **SmartScan-** utilizes advances in operating algorithms and system operations to improve image acquisition and patient throughput while aiding diagnostic confidence and exam consistency.

- **ComfortScan-** our most advanced ergonomic design ever, helps maximize productivity and simplify every exam you perform. The LOGIQ e has increased flexibility and mobility for various scanning conditions.

General Specification

Dimensions and Weight

- Height: 61 mm (2.40 in) console only
100 mm (3.94 in) with handle
- Width: 340 mm (13.38 in)
- Depth: 287 mm (11.30 in) console only
337 mm (13.27 in) with handle
- Weight with Battery: approx. 4.6 kg (10.1 lb.)

Electrical Power

- Voltage: 100- 240 V AC
- Frequency: 50/60 Hz
- Power: Max. 130 VA with Peripherals

Console Design

- Laptop Style
- Integrated HDD (80GB)
- Lithium-Ion Battery Pack (standard)
- Wired, wireless LAN Support
 - For DICOM communication
 - For Network Storage (Image store to PC without DICOM system)
- USB ECG (AHA / IEC) (Optional) Support
- CWD (Optional) Support
- 1 probe port with micro-connector
- Rear handle

User Interface

Operator Keyboard

- Alphanumeric Keyboard
- Ergonomic Hard Key Operations
- Integrated Recording Keys for Remote Control of Peripheral Devices and DICOM Devices
- 6 TGC Pods, with Re-mapping functionality at any depth
- Backlight keys

Display Screen

- 15 inch High-Resolution Color LCD
 - Display size: 1024x768
- Interactive Dynamic Software Menu
- Open Angle Adjustable
 - 0 to 160°
- Integrated Speakers
- Brightness Adjustment
- Audio Volume Adjustment

System Overview

Applications

- Abdominal
- Cardiology
- Obstetrical
- Gynecological
- Musculoskeletal
- Vascular
- Urological
- Small Parts
- Pediatric and Neonatal
- Intraoperative
- Nerve block

Scanning Methods

- Phased Array Sector
- Electronic Convex
- Electronic Linear

Transducer Types

- Convex Array
- Microconvex Array
- Linear Array
- Phase Array

Operating Modes

- B-Mode
- M-Mode
 - Anatomical M-mode
- Color Flow Mode (CFM)
- Power Doppler Imaging (PDI)
- Continuous Wave Doppler (optional)
- Pulse Wave Doppler (PWD)
- Harmonic Imaging, 2 method Filtered, Phase inversion
- CrossXBeam™
- Virtual convex, Virtual apex
- Color M mode(CMM)
- Range Focus
- LOGIQ View

Standard Features

- High Resolution 15 inch Color LCD
- Over 1000 frames or over 60sec CINE Memory (64MB) depend on FOV, Scanning Lines etc.
- 80GB Hard Drive
- External DVD R/W storage
- Loops storage-from 'on the fly' scanning and from memory
- Automatic Optimization
 - Auto Tissue Optimization: ATO
 - Auto CFM Optimization: ACO
 - Auto Spectrum Optimization: ASO
 - Auto TGC
 - Auto Clarity Suite (Auto Focus and Auto Frequency)

- ACE™(Adaptive Color Enhancement)
- TruAccess, Raw Data Processing
- Patient Information Database
- Image Archive 55.8GB on Hard Drive
- Full M&A Calculation Package with Real Time Auto Doppler Calculations
- Vascular Calcs
- Cardiac Calcs
- OB Calcs and Tables
- Fetal Trending
- Multi Gestational Calcs
- Hip Dysplasia Calcs
- Gynecological Calcs
- Urological Calcs
- Renal Calcs
- Report Package

Software Options

- Easy 3D
- DICOM 3.0 Connectivity
- LOGIQ View
- B Steer+
- CrossXBeam
- CMM and AMM
- Touch Mode

Hardware Options

- Battery Pack
- CWD
- USB ECG (AHA / IEC)

Media & Peripherals

- 3 pedal Foot Switch (IPX8)
- 1 pedal Foot Switch (IPX1)
- Isolation Cart
- Docking Cart
 - Adjustable platform height
 - Digital / Analog video output
 - 3 Probe port adapter option
 - External speaker option
 - 17" Extra LCD option
 - 15" Extra touch screen option
 - Panasonic™ DVR option support
 - Total height with LCD: 1385mm±3mm
 - Depth: 617mm±2mm
 - Width: 470mm±1.5mm
 - Weight : 59kg±1.0kg
 - Total height with Touch screen: 1740mm ±3mm
 - Depth : 625mm±2mm
 - Width: 473mm±1.5mm
 - Weight: 70kg±1.0kg
- External USB DVD-RW (standard)

- USB thermal B&W printer, Sony™ UPD-897 (option)
- USB thermal color printer, Sony UPD-23 MD (option)
- USB DeskJet™ color printer, HP470/HP Pro K550 (option)
- NETGEAR™ USB Wireless Adapter WG111 V3 supporting the 802.11a/b/g formats, where available (option)
- Memory Stick (option)
- USB2.0 Hub (option)
- USB HDD
- Measurement transfer Kit
- Barcode scanner(1D, 2D), HPP4600g
- Barcode scanner(1D), HHP3800g
- 120W Universal Power Supply (UPS)

Display Modes

- Simultaneous Capability
 - B/PW
 - B/CFM or PDI
 - B/M or AMM
 - Dual B (B/B)
 - Dual B + CFM or PDI
 - Real-time Triplex Mode
- Selectable Alternating Modes
 - B/M
 - B/PW
 - B/CW
 - B + CFM (PDI)/M (optional)
 - B + CFM (PDI)/PW
 - B + CFM (PDI)/CW
 - 3D – Mode (option)
- Multi Image Split Screen
 - Live and/or frozen
 - B + B/CFM or PDI
 - Independent Cine playback
- Zoom: Read/Pan and from archive
- Colorized Image
 - Colorized B
 - Colorized M
 - Colorized PW
 - Colorized CW
- Time line Display
 - Independent Dual B/PW/CW Display
 - Display Formats: Top/ Bottom or Side/ Side selectable
Format Size: Vert1/3 B; Vert1/2 B; Vert2/3 B; Horiz 1/2 B; Horiz1/4 B; TL Only
format, switchable after freeze
 - Update mode: timed based on sweep
- Quad Screen Display access from split Screen

Display Annotation

- Institution/Hospital Name

- Date: 2 types selectable MM/DD/YY, DD/MM/YY
- Time: 2 types selectable 24 hours, 12 hours
- Operator Identification
- Patient Name: First, Last & Middle
- Patient Identification: 64 characters
- Gestational Age from LMP/EDD/GA/BBT
- Power Output Readout
 - MI: Mechanical Index
 - TIS: Thermal Index Soft Tissue
 - TIC: Thermal Index Cranial (Bone)
 - TIB: Thermal Index Bone
- System Status (real-time or frozen)
- Probe Orientation Marker: Coincides with a probe orientation marking on the probe.
- Image Preview
- Gray/Color Bar
- Cine Gauge
- Measurement Summary Window
- Measurement Results Window: pre-settable display location
- Probe Type
- Application Name
- Imaging Parameters by Mode (current mode)
 - B/M-Mode
Frequency
Gain
Edge Enhance/Frame Averaging
Gray Map
Image Depth
Dynamic Range
Frame Rate
% of Power Output
 - Color Flow Mode
Color Flow Frequency
Color Gain
Line Density/Frame Average
% of Power Output
PRF
Wall Filter
Spatial Filter/Packet Size
 - PW-Mode
Doppler Frequency
Doppler Gain
% of Power Output
PRF
Wall Filter
Sample Volume Width
Dynamic Range
 - CW-Mode
Doppler Frequency
Doppler Gain
% of Power Output
PRF
Wall Filter
Dynamic Range
- Focal Zone Markers
- Body Pattern: 219 types
- B Scale Markers: 2 types

- Depth/Width, Depth, 2
- M Scale Markers: 2 types Time/Depth, Time
- Image Management Menu: Menu, Delete, and Image Manager
- Image Palette
- Caps Lock: On/Off
- System Messages Display
- Trackball Functionality Status: Scroll, M&A (Measurement and Analysis), Position, Size, Scan Area Width and Tilt
- Battery status
- Biopsy Guide Line and Zone
- Heart Rate
- Primary Parameter Menu (depend on current mode)
 - B Mode
Frequency
Gray Map
Dynamic Range
Image Rotate
Focus Position
Colorize
Edge Enhance
Focus Number
Virtual Convex / Virtual Apex
 - Color Flow Mode
Frequency
Spatial Filter
Angle Steer
Packet Size
PRF
Color Map
Threshold
Color Invert
Wall Filter
 - M Mode
Gray Map
Dynamic Range
Sweep Speed
Display Format
Colorize
Edge Enhance
Full Timeline
Power Output
Anatomical M
Rejection
 - PW Mode
Frequency
Baseline
Quick Angle
Angle Steer
Sweep Speed
PRF
SV Length
Angle Correct
Spectral Invert
Wall Filter

- Cine Mode
 - Loop Speed
 - Cycle select
 - Start Frame
 - End Frame
 - Frame by Frame
 - Run/Stop
 - Select All
 - Cine Mode select
 - First
 - Last
- Secondary Parameters Menu
- B Mode
 - Frame Average
 - Biopsy
 - Line Density
 - Focus Width
 - B Softener
 - Suppression
 - Power Output
 - Bsteer+
 - Range Focus
- CF Mode
 - Baseline
 - Line Density
 - Transparency Map
 - Focus Position
 - Flash Suppression
 - Power Output
 - Frame Average
- PW Mode
 - Rejection
 - Dynamic Range
 - Display Format
 - Full Timeline
 - Trace Direction
 - Auto Calculations
 - Modify Calcs
 - PW/CF Ratio
 - Triplex (Duplex) on/off
 - Colorize
 - Gray Map
 - Cycles, to Average
 - Trace Method
 - Trace Sensitivity
 - Time Resolution
 - Spectral Average
 - Power Output
- CW-Mode
 - Display Format
 - Full Timeline
 - Trace Direction
 - Trace Method
 - Trace Sensitivity
 - Auto Calculations
 - Modify Calcs
 - Time Resolution

- Colorize
- Spectral Average
- Power Output
- Cycles, to Change

System Parameters

System Setup

- Diagnostic Categories: 6 types, pre-settable
 - OB, GYN, Cardiac, Urology, Smallparts, Pediatric
 - User Programmable Preset Capability
 - Factory Default Preset Data
 - Languages setup:
 - English, Norwegian, French, German, Spanish, Italian, Portuguese, Russian, Greek, Finnish, Swedish, Dutch, Danish, Japanese
 - Languages for Manuals:
 - English, Norwegian, Polish, French, German, Spanish, Italian, Portuguese, Russian, Greek, Finnish, Swedish, Dutch, Danish, Japanese
 - Operation Error Beep
 - Body Surface Area: 2 types
 - Oriental, Occidental
 - OB Report Format 5 types
 - Tokyo Univ., Osaka Univ., USA, Europe, ASUM
 - EFBW: 8 types
 - Tokyo Univ., Osaka Univ., USA and Europe (Shephard, Merz, Hadlock/Shephard, Williams, Brenner)
 - CUA/AUA for Hadlock
 - Body Pattern Copy to Active Side: On/Off
 - Colorized B/M: 5 types for each.
 - PWD/CWD: 6 types for each
 - Programmable Annotation Library: 44 annotations
 - Customized Common Home Position
 - Menu Selection at New Patient: 2 types
 - Patient Entry, Schedule
 - Sort Criteria for Schedule List: 2 types
 - Date&Time, Name
 - Patient Name Format: 2 types
 - Full Name, Last&First
 - Pre-settable Doppler Audio Volume
 - Measurement Clear Operation: 2 types
 - Meas.-only, with-Comment
 - Display Unit Age: 3 types
 - "Year,month" "Week.day", "No display"
 - System Boot Up: 25 seconds
 - Full maintenance Reboot: 120 sec
 - Probe Change: 3-5 sec
- ### Pre-Processing
- Acoustic Power Output
 - Read Zoom up to 8x

- B/M-Mode
 - Gain
 - CrossXBeam
 - PIH
 - TGC
 - Image Reverse
 - Depth
 - Scan Area
 - Auto Optimize (ATO)
 - Dynamic Range
 - Focus Number
 - Focus Position
 - Line Density
 - Frequency
 - Frame Average
 - Edge Enhance
 - Focus Width
 - M/D Cursor
 - Sweep Speed for M-Mode
 - PW-Mode
 - Gain
 - Sample Volume Gate Position, Length
 - PRF
 - Doppler Frequency
 - Dynamic Range
 - Auto Optimize (ASO)
 - Audio Volume
 - CW-Mode
 - Gain
 - Velocity
 - Doppler Frequency
 - Dynamic Range
 - Auto Optimize (ASO)
 - Audio Volume
 - Color Flow Mode
 - Gain
 - ROI Position, Size
 - PRF
 - Color Line Density
 - Color Frequency
 - Packet Size
 - Threshold
 - Frame Average
 - Focus Position
 - Auto Optimize (ACO)
 - 3D Acquisition (option)
 - Scan Distance
 - Scan Plane
 - Acquisition Mode
- ### Post-Processing
- TruAccess: GE-exclusive, raw-data digital processing
 - Read Zoom up to 8x
 - B/M-Mode
 - Gain
 - Image Reverse

- Auto Optimize (ATO)
- Image Rotation
- Gray Map
- Colorize
- Rejection
- B Softener
- Sweep Speed for M-Mode
- Auto TGC
- PW-Mode
 - Gain
 - Baseline
 - Angle Correct
 - Quick Angle
 - Doppler Invert
 - Display Format
 - Sweep Speed
 - Full Timeline
 - Rejection
 - Colorize
 - Compression (Dynamic Range)
 - Auto Calcs
 - Trace Direction
 - Modify Calcs
 - Number of Average Cycles
 - Trace Method
 - Trace Sensitivity
 - Auto Optimize (ASO)
- CW-Mode
 - Gain
 - Baseline
 - Angle Correct
 - Quick Angle
 - Doppler Invert
 - Display Format
 - Sweep Speed
 - Full Timeline
 - Rejection
 - Colorize
 - Compression (Dynamic Range)
 - Auto Calcs
 - Trace Direction
 - Modify Calcs
 - Number of Average Cycles
 - Trace Method
 - Trace Sensitivity
 - Auto Optimize (ASO)
- Color Flow Mode
 - Gain
 - Baseline
 - Color Invert
 - Color Map
 - Threshold
 - Frame Average (in loop images)
 - Flash Suppression
- Easy 3D (option)
 - Threshold (Opacification)
 - Render

- Texture
- Gray Surface
- Scalpel
- Auto Movie
- Undo
- Reset

Imaging Processing and Presentation

TrueScan : software Intensive Ultrasound Imaging Platform

- Digital Beamformer
- Beamformer Operating Frequency Range: 1.7– 18 MHz
- 1024 Digital Processing Channel Technology
- Displayed Imaging Depth: Minimum Depth of Field: 2 cm (Zoom and probe dependent); Maximum Depth of Field: 30 cm (probe dependent)
- Transmission Focus
 - 1 – 8 Focus Points Selectable (probe and application dependent)
 - Focal Zone Position
- Continuous Dynamic Receive Focus/Aperture
- Multi-Frequency/Wideband Technology
- 256 Shades of Gray (VGA)
- 174 dB System Internal Dynamic Range
- Adjustable Field of View (FOV)
- Image Reverse: Right/Left
- Image Rotation: 2 steps
Rotation: 0°, 180°
- **CINE Memory/Image Memory**
 - Over 1000 frames or over 60sec CINE Memory (64MB) depend on FOV, Scanning Lines etc.
 - CINE Gauge and CINE Image Number Display
 - CINE Review: Frame-by-frame, Loop
 - CINE Review Speed: 9 types
48%;31%;25%;22%;17%;14%;13%;11%;
 - Selectable CINE Sequence for CINE Review
 - Start and End Frame Selections for Loop Playback
 - Separation Maker to Indicate Time Discontinuity
 - Measurements, Calculations and Annotations on CINE Playback

- Scrolling Timeline Memory
- **Image Archive/Connectivity**
 - Clipboard: displays thumbnail images of the acquired data for the current exam
 - Previewing Clipboard Images: An enlarged preview of the image
 - Recalling Images from the Clipboard
 - Image Browser: Archived images from past patient exams appear as well as images stored for the current exam
 - Previewing an Image
 - Grouping a Set of Images
 - Analyzing Images
 - Image Management
 - Select All/Unselect All
 - Permanent Store
 - Delete all the Temporary Images
 - Delete Selected Image
 - Analyze
 - Ethernet Network Connection
 - Configurable 3 Print (Recording) Keys (P1-P3) to Multiple Output Devices/Workflows
 - Archiving Format:
 - DICOM with ultrasound raw data
 - DICOM
 - Capture Area: pre-settable for each print key
 - Video Area
 - Application Window
 - Whole Screen
 - Archiving Image Frames: / pre-settable for each print key
 - Single: stores single frame only
 - Multiple: stores cineloop
 - Secondary Capture: screen shot
 - Image Compression/Picture Quality: pre-settable for each print key
 - Quality: 1% to 100%
 - Dataflow: a set of pre-configured services
 - When you select a dataflow, the Ultrasound system automatically works according to the services associated with the dataflow
 - Configurable Examination List Window, Patient Information Window, and Search/Create Patient Window
 - Free text addresses, birth date, extended patient dialog in Pts Info window
 - Extended search dialog, auto search for patient in Search/Create Pts window
 - Pre-defined text directly in Exam List window

- Automatic generation of patient ID
- Request acknowledge of End Exam action
- Go directly screen from search
- Detect unfinished examination
- Tools
 - Verify DICOM directory on removable media
 - Format removable media (rewritable DVD)
- Views: shows you an overview of the Ultrasound system's connectivity architecture
 - The currently selected dataflow
 - All configured data flows
 - The network structure tree
 - The configured buttons data flows
- AVI and JPEG Export
DICOM Support (option)
 - Verify
 - Print
 - Store
 - Modality Worklist
 - Multiframe
 - Storage Commitment
 - Modality Performed Procedure Step (MPPS)
 - Media Exchange
 - Off network/mobile storage queue

Scanning Parameters

B-Mode

- B/M Acoustic Output: 0 – 100%, 2% step
- Image Reverse: On/Off
- B Colorize: 5 types
- Thermal Index: TIC, TIS, TIB
- Softener: 4 steps
- Focus Number: 8 steps
- Line Density: 5~8 steps (Probe dependent)
- Frame Average: 6 steps
- Edge Enhance: 6 steps
- Angle (deg): probe dependent, 10° – 133°
- Gray Scale Map: 40 types
- Gain: 0 – 98 dB, 2 dB step
- Dynamic Range: 30 – 150 dB, 3 dB step, depend on probe
- Harmonic start: on/off
- Virtual Convex: on/off
- Depth: 2 – 30 cm, 1 cm step
0.5cm step for Linear probe when less than 5cm depth.

- Focus Depth: steps dependent on probes
- Rejection: 6 steps
- Frequency: 3-5steps, probe dependent

Color Flow Mode

- Base Line
- Invert: On/Off
- CF/PDI Focus Depth: 11 steps default pre-settable
- CF/PDI Acoustic Output: 0 – 100%, 10% step
- Packet Size: 6-18, probe dependent.
- Line Density: 5~8 steps (probe dependent)
- Frame Average: 7 steps
- PRF: 0.3K-11.4K Hz (Probe dependent)
- Spatial Filter: 6 steps
- Gain: 0 – 40 dB, 0.5 dB step
- Wall Filter: 2~ 6 steps, Application and probe dependent
- Angle/Width (deg, mm): probe dependent
- CF/PDI Vertical Size (mm): default pre-settable
- CF/PDI Center Depth (mm): default pre-settable
- CF/PDI Frequency: 2-4steps, depend on probe.
- CF/PDI Focal Number: 1
- Color Map: 13 types at most, depend on probe and application
- Color Threshold: 10 – 100 %, 5 % step

PDI-Mode

- PDI Map: 13 types
- CF/PDI Acoustic Output: 0 – 100%, 10% step
- Packet Size: 6-18,depend on probe.
- Spatial Filter: 6 steps
- Frame Average: 7 steps (Probe dependent)
- PRF: 0.3K-11.4K Hz (Depth dependent)
- Power Threshold: 10 – 100 %, 5 % step
- CF/PDI Vertical Size: default pre-settable
- CF/PDI Center Depth: default pre-settable
- CF/PDI Focal Number: 1
- Gain: 0 – 40 dB, 0.5 dB step
- Wall Filter: 6 steps, depend on probe
- CF/PDI Frequency: 2-4 steps depend on probe

M-Mode

- Sweep Speed: 8 steps
- M Color: 5 types
- M/PW Display Format: V-1/3B, V-1/2B, V-2/3B, H-1/2B, H-1/4B, TL Only

- B/M Acoustic Output: 0 – 100 %, 2 % step
- Rejection: 6 steps
- Dynamic Range: 30 – 120 dB, 3 dB step

- Edge Enhance: 6 steps

- Gray Scale Map: 40 types

- M Gain: 0 – 98 dB, 2 dB step

PW/CW-Mode

- Maximum and Minimum Velocity Scales

PW

Max: 870cm/s, 19800Hz

Min Velocity Scale 15cm/s, 700Hz

CW

Max: 1460cm/s, 40000Hz

Min Velocity Scale 40cm/s, 2100Hz

- Gray Scale Map:7 types
- Dynamic Range: 24 - 60, 4 dB step, depend on Application.
- Base Line: 5- 95 %
- SV Gate: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14,16mm, depend on Application.
- Angle Correct: +/- 90°, 1° step
- Spectral Color: 6 types
- PW Sweep Speed: 8 steps
- Invert: On/Off
- M/PW Display Format: V-1/3B, V-1/2B, V-2/3B, H-1/2B, H-1/4B, TLOnly
- PW Acoustic Output: 0 - 100 %, 10 % step
- Spectral Averaging: 5 steps pre-settable
- Time Resolution: 4 steps
- PW/CF Ratio: 1, 2, 4
- Rejection: 15 steps
- Gain: 0 - 32 dB, 1 dB step
- Wall Filter: 5 - 1500 Hz, 22 steps, depend on probe/application
- PW Angle Steer: 0, +/- 10, 15, 20°
- PRF: 700 – 19800 Hz with PW, 2100Hz-40000 Hz with CW
- Sample Volume Depth: 29 steps default pre-settable
- Audio Volume
- PW Frequency 2-4steps, depend on probe

LOGIQ view

Available on all probes

Virtual Convex

Available on the all Linear probes

Measurements / Calculations

General

Measurements/Calculations

Mode Measurement

- B-Mode
 - Distance
 - Circumference/Area (Ellipse/Trace)
- M-Mode
 - Tissue Depth (Distance)
 - Time Interval
 - Depth Difference with Time Interval and Slope
- Doppler Mode
 - Velocity
 - TAMAX, TAMIN, and TAMEAN (Manual/Auto Trace)
 - Two Velocities with Slope and Time Interval
 - Time Interval

Generic Measurement

- B-Mode
 - % Stenosis
 - Volume
 - Angle
 - A/B Ratio
- M-Mode
 - % Stenosis
 - A/B Ratio
 - Heart Rate
- Doppler Mode
 - PI (Pulsatility Index)
 - RI (Resistive Index)
 - S/D Ratio
 - D/S Ratio
 - A/B Ratio
 - Max PG (Pressure Gradient)
 - Mean PG (Pressure Gradient)
 - SV (Stroke Volume)
 - Heart Rate

Abdomen and Small Parts

Measurements/Calculations

- Aorta Diameter
- Renal Length
- Doppler Abdomen and Renal Artery Exam Calcs
 - Acceleration
 - Acceleration Time (AT)
 - Peak Systole (PS), End Diastole (ED), or Mid Diastole (MD)
 - Pulsatility Index (PI)
 - S/D or D/S Ratio
 - Resistive Index (RI)
 - TAMAX
- Thyroid Length, Width, and Height
- Renal Volume
- Emergency medicine

- Adb.Aorta: Prox Ao, Mid Aorta, Distal Ao, Prox Ao Trans, Mid Ao Trans, Distal Ao Trans, AAA Long, AAA Trans
- Gallbladder: CBD, Gallbladder Wall, Thickness

- Max PG
- Mean PG
- Testicle Length, width, and Height

Obstetrics

Measurements/Calculations

- Open trance
- Abdominal Circumference (AC)
- Amniotic Fluid Index (AFI) [Moore]
- Antero-PosteroTrunk Diameter and Transverse Trunk Diameter (APTD-TTD)
- Antero-PosteroTrunk Diameter by Transverse Trunk Diameter (AxT)
- Biparietal Diameter (BPD)
- Crown Rump Length (CRL)
- Cardio-Thoracic Area Ratio (CTAR)
- Estimated Fetal Weight (EFW)
- Femur Length (FL)
- Foot Length (Ft)
- Gestational Sac (GS)
- Head Circumference (HC)
- Humerus Length (HL)
- Length of Vertebra (LV)
- Occipitofrontal Diameter (OFD)
- Transverse Abdominal Diameter (TAD)
- Transverse Cerebellar Diameter (TCD)
- Thorax Transverse Diameter (ThD)
- Tibia Length (Tibia)
- Ulna Length (Ulna)
- Multi-Gestational Calculations
 - Up to 4 fetuses
 - Comparison of multiple fetus data on a graph and a worksheet

OB Worksheet

- Patient Information
 - Fetus Number
 - CUA/AUA Selection
 - Fetus Position
 - Placenta
- Measurement Information
 - AFI
 - AC
 - HC
 - BPD
 - FL
- Calculation Information
 - EFW
 - EFW GP (growth percentile)
 - FL/BPD
 - FL/AC
 - HC/AC

FL/HC

CI (Cephalic Index)

OB Graphs

- Fetal Growth Curve Graphs
 - Normal growth curve, positive and negative standard deviations or applicable percentiles, and ultrasound age of the fetus
 - One measurement per graph
 - Single or Quad views
- Fetal Growth Bar Graph
 - Ultrasound age and gestational age
 - Plots all measurements on one graph

Gynecology

Measurements/Calculations

- Ovary Length, Width, and Height
- Uterus Length, Width, and Height
- Ovarian Follicle Measurements
 - 1 distance
 - 2 distances
 - 3 distances
- Endometrium thickness (Endo)

Cardiac

Measurements/Calculations

B-Mode Measurements

- Aorta
 - 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 Diameter to AoRoot Diameter Ratio (LA/Ao Ratio)
 - Left Atrium Area (LAA(d), LAA(s))
 - Left Atrium Volume, Method of Disk (LAEDV A2C, LAESV A2C) (LAEDV A4C, LAESV A4C)
- 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)
- 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)
- Left Ventricle Stroke Index, Single Plane, Four Chamber, Method of Disk (LVI Dd, LVIDs)
- 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)
- Mitral Valve
 - Mitral Valve Annulus Diameter (MV Ann Diam)
 - E-Point-to-Septum Separation (EPSS)
 - Mitral Valve Area by Pressure Half Time
 - Mitral Valve Area Planimetry (MVA Planimetry)
- Pulmonic Valve
 - Pulmonic Valve Area (PV Planimetry)
 - Pulmonic Valve Annulus Diameter (PV Annulus Diam)
- Pulmonic Diameter (Pulmonic Diam)
- Right Atrium
 - Right Atrium Diameter, Length (RAD Ma)
 - Right Atrium Diameter, Width (RAD Mi)
 - Right Atrium Area (RAA)
 - Right Atrium Volume, Single Plane, Method of Disk (RAAd)
 - Right Atrium Volume, Systolic, Single Plane, Method of Disk (RAAs)
- Right Ventricle
 - Right Ventricle Outflow Tract Area
 - Left Pulmonary Artery Area (LPA Area)
 - Right Pulmonary Artery Area (RPA Area)
 - Right Ventricle Internal Diameter (RVIDd, RVIDs)
 - Right Ventricle Diameter, Length (RVD Ma)
 - Right Ventricle Diameter, Width (RVD Mi)
 - Right Ventricle Wall Thickness (RVAWd, RVAWs)
 - Right Ventricle Outflow Tract Diameter (RVOT Diam)
 - Left Pulmonary Artery (LPA)
 - Main Pulmonary Artery (MPA)
 - Right Pulmonary Artery (RPA)
- System
 - Interventricular Septum Thickness (IVSd, IVSs)
 - Inferior Vena Cava
 - Pulmonary Artery Diameter (MPA)
 - Systemic Vein Diameter (Systemic Diam)
 - Patent Ductus Arteriosus 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)
- Tricuspid Valve
 - Tricuspid Valve Area (TV Panimetry → TVA Panimetry)
 - Tricuspid Valve Annulus Diameter (TV Annulus Diam)
- M-Mode Measurements**
- Aorta
- Aortic Valve
 - Aortic Valve Diameter (AV Diam)
 - Aortic Valve Cusp Separation (AV Cusp)
- Aortic Valve Ejection Time (LVET)
- Left Atrium
 - Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio)
 - Left Atrium Diameter (LA Diam)
- Left Ventricle
 - Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)
 - Left Ventricle Internal Diameter (LVIDd, LVI Ds)
 - Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs)
 - Left Ventricle Ejection Time (LVET)
 - Left Ventricle Pre-Ejection Period (LVPEP)
 - Interventricular Septum (IVS)
 - Left Ventricle Internal Diameter (LVI D)
 - Left Ventricle Posterior Wall Thickness (LVPW)
- Mitral Valve
 - E-Point-to-Septum Separation (EPSS)
 - Mitral Valve Leaflet Separation (D-E Excursion)
 - Mitral Valve Anterior Leaflet Excursion (D-E Excursion)
- Pulmonic Valve
 - QRS complex to end of envelope (Q-to-PV close)
- Right Ventricle
 - Right Ventricle Internal Diameter (RVIDd, RVIDs)
 - Right Ventricle Wall Thickness (RVAWd, RVAWs)
 - Right Ventricle Ejection Time (RVET)
 - Right Ventricle Pre-Ejection Period (RVPEP)
- System
 - Interventricular Septum Thickness (IVSd, IVSs)
 - Pericard Effusion (PE(d))
 - Interventricular Septum (IVS) Fractional Shortening (IVSd, IVSs)
- Tricuspid Valve
 - QRS complex to end of envelope (Q-to-TV close)
- Doppler Mode Measurements**
- Aortic Valve
 - Aortic Insufficiency Mean Pressure Gradient (AR Trace)
 - Aortic Insufficiency End Diastole Pressure Gradient (AR Trace)
 - Aortic Insufficiency Mean Velocity (AR Trace)

- Aortic Insufficiency Mean Square Root Velocity (AR Trace)
- Aortic Insufficiency Velocity Time Integral (AR Trace)
- Aortic Valve Mean Velocity (AV Trace)
- Aortic Valve Mean Square Root Velocity (AV Trace)
- Aortic Valve Velocity Time Integral (AV Trace)
- Aortic Valve Mean Pressure Gradient (AV Trace)
- Aortic Insufficiency End-Diastolic Velocity (AR Trace)
- Aortic Valve Peak Velocity (AV Vmax)
- Aortic Valve Peak Velocity at Point E (AV Vmax)
- Aorta Proximal Coarctation (Coarc Pre-Duct)
- Aorta Distal Coarctation (Coarc Post-Duct)
- Aortic Valve Insufficiency Pressure Half Time (AR PHT)
- Aortic Valve Flow Acceleration (AV Trace)
- Aortic Valve Pressure Half Time (AV Trace)
- Aortic Valve Acceleration Time (AV Acc Time)
- Aortic Valve Deceleration Time (AV Trace)
- Aortic Valve Ejection Time (AVET)
- Aortic Valve Acceleration to Ejection Time Ratio (AV Acc Time, AVET)
- Left Ventricle
 - Left Ventricle Outflow Tract Peak Pressure Gradient (LVOT Vmax → 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 Mean Square Root Velocity (LVOT Trace)
 - Left Ventricle Outflow Tract Velocity Time Integral (LVOT Trace)
 - Left Ventricle Ejection Time (LVET)
 - Cardiac Output by Aortic Flow (AVA Planimetry, AV Trace)
 - Stroke Volume Index by Aortic Flow (AVA Planimetry, AV Trace)
- Mitral Valve
 - Mitral Valve Regurgitant Flow Acceleration (MR Trace)
 - Mitral Valve Regurgitant Mean Velocity (MR Trace)
 - Mitral Regurgitant Mean Square Root 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 Mean Square Root 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 Flow Deceleration (MV Trace)
 - Mitral Valve Flow Acceleration (MV Trace)
 - 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 (MV Trace)
 - Mitral Valve A-Wave Duration (MV A Dur)
 - Mitral Valve Time to Peak (MV Trace)
 - Mitral Valve Acceleration Time/Deceleration Time Ratio (MV Acc/Dec Time)
 - Stroke Volume Index by Mitral Flow (MVA Planimetry, MVTrace)
 - Mitral Valve Area from Continuity Equation (MVAPlanimetry, LVOT Vmax)
- Pulmonic Valve
 - Pulmonic Insufficiency Peak Pressure Gradient (PR Vmax)
 - Pulmonic Insufficiency End-Diastolic Pressure Gradient (PRTrace)
 - Pulmonic Valve Peak Pressure Gradient (PV Vmax)
 - Pulmonic End-Diastolic Pressure Gradient (PR Trace)
 - Pulmonic Insufficiency Peak Velocity (PR Vmax)
 - Pulmonic Insufficiency End-Diastolic Velocity (Prend Vmax)
 - Pulmonic Valve Peak Velocity (PV Vmax)
 - Pulmonic End-Diastolic Velocity (PV Trace)
 - Pulmonary Artery Diastolic Pressure (PV Trace)
 - Pulmonic Insufficiency Mean Pressure Gradient (PR Trace)
 - Pulmonic Valve Mean Pressure Gradient (PV Trace)
 - Pulmonic Insufficiency Mean Velocity (PR Trace)
 - Pulmonic Insufficiency Mean Square Root Velocity (PR Trace)
 - Pulmonic Insufficiency Velocity Time Integral (PR Trace)
 - Pulmonic Valve Mean Velocity (PV Trace)
 - Pulmonic Valve Mean Square Root 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)
 - Pulmonic Valve Pre-Ejection to Ejection Time Ratio (PVET)
- Right Ventricle
 - Right Ventricle Outflow Tract Peak Pressure Gradient (RVOT Vmax)
 - Right Ventricle Systolic Pressure (RVOT Vmax)
 - Right Ventricle Outflow Tract Peak Velocity (RVOT Vmax)

- Right Ventricle Diastolic Pressure (RVOT Trace)
- Right Ventricle Outflow Tract Velocity Time Integral (RVOTTrace)
- Stroke Volume by Pulmonic Flow (RVOTTrace)
- 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)
 - Pulmonary Artery Velocity Time Integral (PV Trace)
 - 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 Mean Velocity (TR Trace)
 - Tricuspid Regurgitant Mean Square Root Velocity (TR Trace)
 - Tricuspid Regurgitant Velocity Time Integral (TR Trace)
 - Tricuspid Valve Mean Velocity (TV Trace)
 - Tricuspid Valve Mean Square Root 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)
 - Stroke Volume by Tricuspid Flow (TV Trace)
 - Tricuspid Valve E-Peak to A-Peak Ratio (TV E/A Velocity)
- Systemic
 - Tricuspid Regurgitant Velocity Time Integral (TR Trace)
 - Tricuspid Valve Mean Velocity (TV Trace)
 - Tricuspid Valve Mean Square Root 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)
 - Stroke Volume by Tricuspid Flow (TV Trace)
 - Tricuspid Valve E-Peak to A-Peak Ratio (TV E/A Velocity)
- Color Flow Mode Measurements
 - Aortic Valve
 - Proximal Isovelocity Surface Area: Regurgitant Orifice Area (AR Radius)
 - Proximal Isovelocity Surface Area: Radius of Aliased Point (AR Radius)
 - Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace)
 - Proximal Isovelocity Surface Area: Regurgitant Volume Flow (AR Trace)
 - Proximal Isovelocity Surface Area: Aliased Velocity (AR Vmax)
 - Mitral Valve
 - Proximal Isovelocity Surface Area: Regurgitant Orifice Area (MR Radius)
 - Proximal Isovelocity Surface Area: Radius of Aliased Point (MR Radius)
 - 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)
- Combination Mode Measurements
 - Aortic Valve
 - Aortic Valve Area (Ao Root Diam, LVOT Vmax, AV Vmax)
 - Aortic Valve Area by Continuity Equation by Peak Velocity (Ao Root Diam, LVOT Vmax, AV Vmax)
 - Stroke Volume by Aortic Flow (AVA Planimetry, AV Trace)
 - Mitral Valve
 - Stroke Volume by Mitral Flow (MVA Planimetry, MV Trace)
 - Cardiac Output by Mitral Flow (MVA Planimetry, MV Trace, HR)
 - Pulmonic Valve
 - Cardiac Output by Aortic Flow (AVA Planimetry, AV Trace, HR)
 - Aortic Valve Area by Continuity Equation VTI (Ao Root Diam, LVOT Vmax, AV Trace)
 - Left Ventricle
 - Cardiac Output, Teichholz/Cubic (LVIDd, LVI Ds, HR)
 - Cardiac Output Two Chamber, Single Plane, Area-Length/ Method of Disk (Simpson) (LVAd, LVAs, HR)
 - Cardiac Output Four Chamber, Single Plane, Area-Length/ Method of Disk (Simpson) (LVAd, LVAs, HR)
 - Ejection Fraction Two Chamber, Single Plane, Area-Length/ Method of Disk (Simpson) (LVAd, LVAs)
 - Ejection Fraction Four Chamber, Single Plane, Area-Length/ Method of Disk (Simpson) (LVAd, LVAs)
 - Left Ventricle Stroke Volume, Single Plane, Two Chamber/Four Chamber, Area-Length (LVAd, LVAs)
 - Left Ventricle Stroke Volume, Single Plane, Two Chamber/Four Chamber, Method of Disk (Simpson) (LVIDd, LVIDs, LVAd, LVAs)
 - Left Ventricle Volume, Two Chamber/Four Chamber, Area-Length (LVAd, LVAs)
 - Ejection Fraction, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)
 - Left Ventricle 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)
 - Stroke Volume by Aortic Flow (AVA Planimetry, AV Trace)

- Stroke Volume by Pulmonic Flow (PV Planimetry, PV Trace)
- Cardiac Output by Pulmonic Flow (PV Planimetry, PV Trace, HR)
- Tricuspid Valve
 - Cardiac Output by Tricuspid Flow (TV Planimetry, TV Trace, HR)

Cardiac Worksheet

Vascular

Measurements/Calculations

Exam Categories

- Generic
- Carotid Artery
- Lower Extremity Artery
- Lower Extremity Vein
- Renal Artery
- Upper Extremity Artery
- Upper Extremity Vein

B-Mode Measurements

- % Stenosis
 - Diameter
 - Area
- Volume
 - One distance
 - Two distances
 - Three distances

- A/B Ratio
 - Diameter
 - Area

M-Mode Measurements

- % Stenosis
 - Diameter
- A/B Ratio
 - Diameter
 - Time
 - Velocity

Doppler Mode Measurements

Auto Vascular Calculation

- Acceleration
- Acceleration Time (AT)
- End Diastole (ED), Mid Diastole (MD) or Peak Systole (PS)
- ED/PS or PS/ED Ratio
- Heart Rate
- Pulsatility Index (PI)
- Resistive Index (RI)
- TAMAX
- Edit Trace
- TAMEAN
- Volume Flow
- PV

Vascular Worksheet

- Vessel Worksheet
- Vessel Summary
- Examiner's Comments

- Generic Worksheet
- Intravessel Ratio

Pediatrics

Measurements/Calculations

- Alpha HIP
- d: D Ratio
- HIP (BA)

Urology Measurements/Calculations

- Bladder (0.7) Length, Height and Width
- Prostate Length, Height and Width
- Renal Length, Height and Width
- STVOL

Probes

• 4C-RS Wide Band Convex Probe

- Applications: Abdomen, OB Gyn, Urology
- Probe Frequency Range : 2.0~5.5MHz
- Number of Element: 128
- Convex Radius : 60 mmR
- FOV : 55°
- Lens Foot Print : 65 x 16 mm
- B-mode Imaging Frequency : 2.0, 3.0, 4.0, 5.0 MHz
- Harmonic Imaging Frequency : 4.0, 5.0, 5.2, 5.5 Mhz
- CFM Imaging Frequency : 2.5, 3.3 Mhz
- Doppler Frequency : 2.5, 3.3 MHz
- Biopsy Guide Available : Reusable Bracket, Disposable Sleeve

• 3S-RS Wide Band Phase Probe

- Applications: Cardiac, Abdomen, Gyn
- Probe Frequency Range : 1.7- 4 MHz
- Number of Element: 64
- FOV : 90°
- Lens Foot Print : 21 x 15 mm
- B-mode Imaging Frequency : 2.0, 2.5, 3.0MHz
- Harmonic Imaging Frequency: 2.8, 3.0, 3.2, 3.6, 3.8, 4.0 MHz
- CFM Imaging Frequency: 1.7, 2.0, 2.2, 2.6 MHz
- Doppler Frequency : 1.7, 2.0, 2.2, 2.6MHz
- Biopsy Guide Available : Multi Angle

• 8L-RS Wide Band Linear Probe

- Applications: Vascular, Small Parts,
- Probe Frequency Range : 4-12 MHz
- Number of Element: 128
- FOV(max) : 39 mm
- Lens Foot Print : 42 x 8 mm
- B-mode Imaging Frequency : 6.0, 7.0, 8.0, 10.0,11.0 MHz
- Harmonic Imaging Frequency : 6.0, 8.0, 10.0, 11.0, 12.0 Mhz
- CFM Imaging Frequency : 4.0, 4.4, 5.0 MHz
- Doppler Frequency : 4.0, ,4.4, 5.0 MHz
- Steered Angle :+/-20°
- Biopsy Guide Available : Multi Angle

• 12L-RS Wide Band Linear Probe

- Applications: Vascular, Small Parts, Neonatal, Pediatrics
- Probe Frequency Range : 5-13 MHz
- Number of Element: 192
- FOV(max) : 39mm
- Lens Foot Print : 42 x 7 mm
- B-mode Imaging Frequency : 7.0, 8.0, 10.0, 12.0 MHz
- Harmonic Imaging Frequency : 8.0, 10.0, 12.0, 13.0 MHz
- CFM Imaging Frequency : 5.0, 6.7 MHz
- Doppler Frequency : 5.0, 6.7 MHz
- Steered Angle :+/-20°
- Biopsy Guide : Multi Angle Biopsy attachment

• E8C-RS Wide Band Microconvex Probe

- Applications: OB, Gyn, Urology, Endocavity
- Probe Frequency Range : 4.0 – 10.0 MHz
- Number of Element: 128
- Convex Radius : 11 mmR
- FOV : 133°
- Lens Foot Print : 26 x 10 mm
- B-mode Imaging Frequency : 6.0, 8.0, 10.0 MHz
- Harmonic Imaging Frequency : 8.0, 10.0 MHz
- CFM Imaging Frequency : 4.0, 5.0 MHz
- Doppler Frequency : 4.0, 5.0 MHz
- Biopsy Guide Available : Fixed Angle, Disposable, or Reusable.

• 8C-RS Wide Band Microconvex Probe

- Applications: Pediatrics

- Probe Frequency Range : 4.0 – 10.0 MHz
- Number of Element: 128
- Convex Radius : 11 mmR
- FOV : 133°
- Lens Foot Print : 26 x 10 mm
- B-mode Imaging Frequency : 6.0, 8.0, 10.0 MHz
- Harmonic Imaging Frequency : 8.0, 9.0, 10.0 MHz
- CFM Imaging Frequency : 4.0, 5.0 MHz
- Doppler Frequency : 4.0, 5.0 MHz
- Biopsy Guide Available : Biopsy not support

- i12L-RS Wide Band Linear Probe
 - Applications: Vascular, Small Parts, Intra-operative
 - Probe Frequency Range: 4 -10 MHz
 - Number of Element: 96
 - FOV(max) : 25mm
 - Lens Foot Print : 29 x 10 mm
 - B-mode Imaging Frequency : 6.0, 8.0, 10.0 MHz
 - Harmonic Imaging Frequency : 8.0, 10.0 MHz
 - CFM Imaging Frequency : 4.0, 5.0 MHz
 - Doppler Frequency : 4.0, 5.0 MHz
 - Steered Angle :+/-20°
 - Biopsy Guide Not Available

- 9L-RS Wide Band Linear Probe
 - Applications: Vascular, Small Parts
 - Probe Frequency Range:3.33 -10 MHz
 - Number of Element: 192
 - FOV(max) : 44mm
 - Lens Foot Print : 44 x 7.0mm
 - B-mode Imaging Frequency : 5.0, 7.0, 9.0 MHz
 - Harmonic Imaging Frequency : 8.0, 10.0 MHz
 - CFM Imaging Frequency : 3.33, 4.0, 5.0MHz
 - Doppler Frequency : 3.33, 4.0, 5.0MHz
 - Steered Angle :+/-20°
 - Biopsy Guide Available : Multi Angle

- I/T739L-RS Wide Band Linear Probe
 - Applications: Vascular, Small Parts, Intra-operative
 - Probe Frequency Range:4 -12 MHz
 - Number of Element: 96
 - FOV(max) : 39mm

- Lens Foot Print : 44 x 9mm
- B-mode Imaging Frequency : 6.0, 8.0, 10.0 MHz
- Harmonic Imaging Frequency : 8.0, 10.0, 12.0 MHz
- CFM Imaging Frequency : 4.0, 4.4, 5.0 MHz
- Doppler Frequency : 4.0, 4.4, 5.0 MHz
- Steered Angle :+/-10°, +/-15°
- Biopsy Guide Not Available

Inputs and Outputs

- Outputs
 - VGA
 - Earphone Port
- Connectors
 - USB (Footswitch, DVD-RW, video printer)
 - DC Power input
 - Ethernet port
 - Docking Connector

Safety Conformance

LOGIQ e is:

- Listed to UL 60601-1 by a Nationally Recognized Test Lab
- Certified to CAN/CSA-C 22.2 No.601.1 by an SCC accredited Test Lab
- CE Marked to Council Directive 93/42/EEC on Medical Devices
- Conforms to the following standards for safety:
 - IEC 60601-1 Electrical medical equipment
 - IEC 60601-1-1 Electrical medical equipment
 - IEC 60601-1-2 Electromagnetic compatibility
 - IEC 60601-1-4 Programmable medical systems
 - IEC 60601-1-6 2004 Medical Electrical Equipment – Part 6: General Requirements for safety – Usability
 - IEC 61157 Declaration of acoustic output
 - IEC60601-2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment
 - ISO 10993 Biological evaluation of medical devices
 - NEMA UD3 Acoustic output

display (MI, TIS, TIB, TIC)

Not all features or specifications described in this document may available in all probes and/or modes.

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