

LOGIQ P10 R4.5 (LP10 *XDclear*)

Product Spec Sheet (Global version)

DOC2728824

July 29, 2024

General Specifications

Dimensions and Weight



| | |
|--------------------|---|
| Height | <ul style="list-style-type: none"> • Articulating monitor arm (standard) <ul style="list-style-type: none"> – Minimum: 1390 mm (54.7 inch) – Maximum: 1640 mm (64.5 inch) |
| Width | <ul style="list-style-type: none"> • Keyboard: 430 mm (16.9 inch) • Foot cover: 495 mm (19.5 inch) • Monitor: 565 mm (22.2 inch; 23.8 inch HDU Display) |
| Depth | <ul style="list-style-type: none"> • Foot cover: 685 mm (27.0 in) • Rear handle: 740 mm (29.1 in) |
| Weight (max. load) | • 83 kg/183 lbs |
| Weight (min. load) | • 69 kg/152 lbs |

Electrical Power

Voltage: 100 – 240 Vac

Frequency: 50/60 Hz

Power consumption maximum of 500 VA with peripherals

Maximum thermal output: 700 BTU/hr

Console Design

4 active probe ports (3 x RS and 1 x DLP)

1 CW pencil probe port

Probe light

Integrated Solid State Drive (capacity: 500 GB)

Integrated DVD \pm R/W multi drive (option)

On-board storage for B/W-printer

Integrated speakers

Wheels:

- Wheel diameter: 125 mm
- Locking mechanism that provides rolling lock and caster swivel lock

Probe holders, removable for cleaning and washing

Gel holder with integrated gel warmer (option), removable for cleaning and washing

Integrated cable management

Easily removable air filters

Front and rear handles (option)

User Interface

Operator Keyboard

Operating keyboard adjustable in two dimensions:

- Height: 810-910 mm
- Rotation: $\pm 30^\circ$

Digital TGC with 8 independent controls and digital A/N keyboard

Backlit alphanumeric keyboard (option), 16 mm spacing, integrated to the control panel with interface in local languages

Ergonomic hard key layout

Multigestational Touch control

Interactive back-lighting

Integrated recording keys for remote control of up to 8 peripheral devices or DICOM® devices

Touch Screen

10.4" wide LCD, high resolution, color touch screen

Interactive dynamic software menu

Brightness adjustment

User-configurable layout

Monitor

23.8inch HDU Display

Tilt/rotate/translate

- Tilt angle +15°/-90°
- Rotate angle $\pm 90^\circ$
- Translate horizontal 660 mm
- Translate vertical 150 mm

Display colors: 16.7M

Resolution: 1920 x 1080

Contrast Ratio: >200,000:1

Fold-down and lock mechanism for transportation

Brightness and contrast adjustment

Horizontal/vertical viewing angle of $\pm 178^\circ$

Articulating monitor arm

System Overview

Applications

Abdominal

Obstetrical

Gynecological

Breast

Small Parts

Musculoskeletal and Superficial

Vascular

Urological

Endocavitary

- Transvaginal
- Transrectal

Pediatric and Neonatal

Transcranial

Transesophageal

Cardiac

Intraoperative

Scanning Methods

Electronic sector

Electronic convex

Electronic micro convex

Electronic linear

Real-time 4D volume sweep

Transducer Types

Sector phased array

Convex array

Microconvex array

Linear array

Matrix array

Single CW (pencil) probes

| | |
|---|---|
| Volume probes (4D) | |
| Bi-plane array, one Linear and one Convex Transducers | |
| Operating Modes | |
| B-Mode | |
| Coded Harmonic Imaging | |
| M-Mode | |
| B/M-Mode | |
| Color Flow Mode (CFM) | |
| Coded Harmonic Imaging for B Mode/PW Doppler/Color Flow for variables as depth, resolution or Phase Inversion pulse | |
| Power Doppler Imaging (PDI) with directional map | |
| PW Doppler with high PRF | |
| M-Color Flow Mode | |
| Anatomical M-Mode | |
| Curved Anatomical M-Mode | |
| B-Flow™/B-Flow Color Mode (option) | |
| Extended Field of View (LOGIQView, option) | |
| B Steer+ (option) | |
| Coded Contrast Imaging (option) | |
| CW Doppler Mode (option) | |
| Tissue Velocity Imaging (TVI) Mode (option) | |
| Strain Elastography (option) | |
| SW DVR (option) | |
| Shear Wave Elastography (option) | |
| HD/ive™ (option) | |
| UGAP (option) | |
| 3D/4D Volume Modes: | <ul style="list-style-type: none"> • 3D static (option) • 4D real-time (option) |
| 3D/4D Volumes/s: | <ul style="list-style-type: none"> • 3D and 4D maximum capacity of 109.2 |
| System Standard Features | |
| SSD disk partition of 345 GB for image storage without compression | |
| Storage formats | <ul style="list-style-type: none"> • DICOM: compressed/uncompressed, single/multi-frame, with/without raw data • Export JPEG, WMV (MPEG 4), and AVI formats |
| Advanced user interface with high resolution 10.4" wide LCD touch panel | |
| Automatic optimization | <ul style="list-style-type: none"> • Auto tissue optimization • Auto spectral optimization • Auto TGC |
| CrossXBeam™ compounding | |
| Speckle Reduction Imaging (SRI-HD) | |
| Fine angle steer | |
| Coded Harmonic Imaging | |
| Virtual convex | |
| Easy 3D | |
| Anatomical M-Mode | |
| Patient information database | |

| |
|--|
| Image archive on integrated CD/DVD (option) and SSD |
| Easy backup to media for data security |
| TruAccess, raw data processing and analysis |
| Real-time automatic doppler calcs |
| OB calcs |
| Fetal trending |
| Urological Calculation (Stepper Volume calculation prostate), joint use with Stepper-Grid system |
| Multi gestational calcs |
| Hip dysplasia calcs |
| Gynecological calcs |
| Vascular calcs |
| Cardiac calcs |
| Urological calcs |
| Renal calcs |
| InSite™ ExC capability, remote service |
| iLinq capability, remote service |
| On-board electronic documentation (PDF format) |
| MPEGVue |
| Key macro |
| Network storage |
| Quick save |
| Quick patient entry |
| Quick patient change |
| Probe Check |
| Start Assistant |
| TIC motion tracking |
| My Page |
| My Trainer+ |
| Email to MMS |
| Reset |
| Tricefy™ |
| Privacy and Security |
| Multigestational Touch control |
| IOTA (International Ovarian Tumor Analysis) LR2 worksheet |

Note) IOTA is not available in USA, Japan and China.

| |
|---------------------------------|
| Vnav Import |
| Doppler Assistant |
| MyPreset |
| SonoRenderLive |
| External USB printer connection |
| S-video |
| Composite output |

System Options

| |
|-------------------------------|
| Auto IMT |
| AutoEF |
| Strain Elastography |
| Elastography Quantification |
| Advanced 3D with 3D landscape |
| DICOM 3.0 connectivity |

| | |
|---|---|
| DICOM Viewer | |
| LOGIQView | |
| B-Flow/B-Flow Color | |
| CF/PDI Quantification | |
| Measure assist breast | |
| Measure assist OB | |
| Breast productivity package | |
| Thyroid productivity package | |
| B Steer+ | |
| Stress Echo | |
| Tissue Velocity Imaging (TVI) with Q-Analysis | |
| Scan assistant | |
| Compare assistant | |
| Cardiac Strain | |
| Report writer | |
| ECG | |
| ECG AHA cable | |
| ECG IEC cable | |
| CW Doppler | |
| Q-Path | |
| SW DVR Basic | |
| SW DVR | <ul style="list-style-type: none">• Storage: CD/DVD media• Storage: USB memory stick |
| Real-time 4D | |
| 4D TUI | |
| Static 3D | |
| VOCAL II | |
| VCI static | |
| STIC | |
| OmniView | |
| Offline scanning | |
| Shear Wave Elastography | |
| HD/live | |
| HRES CEUS | |
| LOGIQ P Apps (Software key only) | |
| AFI | |
| Coded Contrast (CEUS) | |
| Koios Breast Lesion Decision Support ⁴ | |
| Koios Throid Lesion Decision Support ⁴ | |
| UGAP | |
| Hepatic Assistant | |
| SonoAVC Renal | |
| SonoNT/SonoIT | |
| Digital Expert | |
| High cabinet | |
| Low cabinet | |
| Drawer | |
| Side tray | |
| Small probe adaptor | |
| Vertical endocavitary probe holder | |
| Probe cable hanger | |

| | |
|---|--|
| Cable hook rear | |
| Card reader mounting kit | |
| Paper tray | |
| OPIO tray | |
| Gel warmer | |
| Multipurpose holder | |
| Physical A/N keyboard | |
| Peripheral Options | |
| Integrated mounting kits and remote controls provided for B/W digital thermal printer | |
| Digital color A6 thermal printer | |
| Digital color A5 thermal printer | |
| Barcode reader (for reading needle information) (H43132LZ) | |
| Wireless LAN card for wireless data transfer | |
| LOGIQ P apps (Bluetooth) | |
| HDMI output available for compatible devices | |
| Foot switch, with programmable functionality, 3-pedal (H46732LF) | |
| Universal video converter | |
| - UVC S300 Global (H42832LJ) | |
| - UVC S300 Japan (H42832LK) with Destination set Japan (H46712LY) and UVC AC Adapter for JPN (Z72112FB) | |
| Power assistant (battery or extended battery option) for offline scanning | |
| - Extended battery option (H42902LM) | |
| - Battery option (H42832LG) | |
| Isolation transformer (H48671WN) | |
| Ethernet protection cable (H43272LJ) | |
| EMI filter, Power supply noise filter (H46162LH) | |
| UPS 120V, Powervar144k120v MG UPS (H4913UP) | |
| UPS 230V, Powervar144k 230V MG UPS (H4921UP) | |
| Display Modes | |
| Live and stored display format: full size and split screen – both with thumbnails. For still and CINE | |
| Review image format: 4x4, and "thumbnails." For still and CINE | |
| Simultaneous capability | <ul style="list-style-type: none">• B/PW• B/CFM or PDI• B/M• B + CFM/M• Real-time Triplex Mode (B + CFM or PDI/PW or CW)• B-Flow + PW• Dual B (B/B) |
| Selectable alternating modes | <ul style="list-style-type: none">• B/M• B/PW• B + CFM/M• B + CFM (PDI)/PW (CW)• B-Flow + PW• 3D – Mode• 3D – Mode Color• B/CW• B + CFM (PDI)/CW |
| Multi-image split screen (quad screen) | <ul style="list-style-type: none">• Live and/or frozen• B + B/CFM or PDI• PW/M |

| | |
|---|---|
| Independent CINE playback | |
| Zoom: write/read/pan | |
| Colorized image | <ul style="list-style-type: none"> • Colorized B • Colorized M • Colorized PW • Colorized CW • Colorized B-Flow |
| Time line display | |
| Independent dual B/PW display | |
| CW | |
| Display formats: | <ul style="list-style-type: none"> • 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; 1/3:2/3; 0:1) switchable after freeze |
| Timeline only | |
| Virtual convex | |
| CrossXBeam | |
| Tissue Velocity Imaging (TVI) Mode | |
| Elastography and simultaneous B/Elasto | |
| UGAP/SWE simultaneous | |
| Display Annotation | |
| Patient name: first, last and middle name each store 27 characters. Up to 64 total characters displayed | |
| Patient ID: 31 characters. Up to 27 characters displayed | |
| 2nd patient ID | |
| Age, sex and date of birth | |
| Hospital name: 23 characters | |
| Date format: 3 types selectable | <ul style="list-style-type: none"> • MM/DD/YY • DD/MM/YY • YY/MM/DD |
| Time format: 2 types selectable | <ul style="list-style-type: none"> • 24 hours • 12 hours |
| Gestational age from LMP/EDD/GA/BBT | |
| Probe name | |
| Map names | |
| Probe orientation | |
| Depth scale marker | |
| Lateral scale marker | |
| Focal zone markers | |
| Image depth | |
| Zoom depth | |
| B-Mode | <ul style="list-style-type: none"> • Gain • Dynamic range • Imaging frequency • Edge enhance • Frame averaging • Gray map • ATO on/off • SRI-HD • CrossXBeam |

| | |
|---|--|
| M-Mode | <ul style="list-style-type: none"> • Gain • Dynamic range • Time scale |
| Doppler Mode | <ul style="list-style-type: none"> • Gain • Angle • Sample volume depth and width • Wall filter • Velocity and/or frequency scale • Spectrum inversion • Time scale • PRF • Doppler frequency |
| Color Flow Mode | <ul style="list-style-type: none"> • Line density • Frame averaging • Packet size • Color scale: 3 types <ul style="list-style-type: none"> – Power – Directional PDI – Symmetrical velocity imaging • Color velocity range and baseline • Color threshold marker • Color gain • PDI • Color scale inversion • Color doppler frequency |
| TGC curve | |
| Acoustic frame rate | |
| CINE gage, image number/frame number | |
| DVR counter and status | |
| Body pattern: multiple human and animal types | |
| Application name | |
| Measurement results | |
| Operator message | |
| Displayed acoustic output | <ul style="list-style-type: none"> • TIS: Thermal Index Soft Tissue • TIC: Thermal Index Cranial (Bone) • TIB: Thermal Index Bone • MI: Mechanical Index |
| % of power output | |
| Biopsy guide line and/or zone | |
| Heart rate | |
| General System Parameters | |
| System Setup | |
| 8 pre-programmable categories | |
| User programmable preset capability, including assisted or user-configurable protocols to optimize workflow | |
| Factory default preset data | |
| Languages: English, French, German, Spanish, Italian, Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian, Japanese (message only), Chinese (message only) | |
| OB report format: 5 types, Tokyo Univ., Osaka Univ., USA, Europe, and ASUM | |

EFBW: 10 types, Japan, USA and Europe (Tokyo Uni., Osaka Univ., Tokyo Shinozuka, JSUM, German, Shepard, Merz, Hadlock/Shepard, Williams, Brenner)

Pre-defined annotations and user programmable

User defined libraries/annotations

Body patterns

Customized comment home position

Complete User Manual Available On Board Through Help

User manual and service manual are included in eDoc USB stick with each system. A printed manual is available upon request.

CINE Memory/Image Memory

CINE memory: 776 MB

Selectable CINE sequence for CINE review

Prospective CINE mark

Measurements/calculations and annotations on CINE playback

Scrolling timeline memory

CINE capture function

Digital continuous CINE capture

Dual image CINE display

Quad image CINE display

CINE gauge and CINE image number display

CINE review loop

CINE review speed: 10 steps (11, 13, 14, 17, 22, 25, 31, 100, 200, 400%)

Image Storage

On-board database of patient information from past exams

Storage formats:

- DICOM: compressed/ uncompressed, single/multi-frame, with/without Raw Data

Storage formats: (cont.)

- Export JPEG, JPEG2000, WMV (MPEG 4), and AVI formats

DICOM still image storage size: ~2.1 MB

Gray image: ~1.3 to ~3.5 MB

Color image: ~1.8 to ~5.0 MB

Display format: full size, 4x4 and "thumbnails"

Storage devices:

- Internal Solid-State Drive partition of 345 GB for image storage
- External USB 2.0 hard drive support for import, export, DICOM read, SaveAs and MPEGVue
- USB memory stick support for SaveAs and MPEGVue (64 MB to 4 GB)
- CD-R storage: 700 MB
- DVD storage: -R (4.7 GB)

Conversion to formats: JPEG, AVI, WMV

Live image and stored image side-by-side display

Compare old images with current exam

Reload of archived date sets

Network storage support for import, export, DICOM read, SaveAs, MPEGVue

Connectivity & DICOM

| | |
|---|--|
| Privacy and Security | <ul style="list-style-type: none"> • Password Policies • Provides the ability to specify password policies for user accounts • Session Management • Lock screen after minutes (configurable) • Hard Disk Encryption • Encrypts patient data archive partition • Provides whitelisting type malware protection • TPM Support for security |
| DICOM 3.0 (option) | <ul style="list-style-type: none"> • Verify • Print • Store • Modality worklist • Storage commitment • Modality Performed Procedure Step (MPPS) • Media exchange • Off network/mobile storage queue • Query/retrieve • Structured reporting • Public SR template • Structured reporting – compatible with vascular and OB standard • Direct export DICOM SR and XML • Media store of SR • InSite ExC capability |
| DICOM Viewer | |
| Ethernet network connection | |
| Wireless LAN (option) | |
| LOGIQ P Apps | |
| Physiological Input Panel | |
| Physiological input | |
| ECG, 2 lead | |
| Dual R trigger | |
| Pre-settable ECG R delay time | |
| Re-settable ECG position | |
| Adjustable ECG gain control | |
| Automatic heart rate display | |
| Scanning Parameters | |
| Digital P-Agile beamformer architecture | |
| 1,068,646 system processing channels | |
| Max. frame rate up to 3229 F/s | |
| Displayed imaging depth: 0 – 48 cm | |
| Minimum Depth of Field: 0 – 1 cm (zoom, probe dependent) | |
| Maximum Depth of Field: 0 – 48 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: 2 – 22 MHz, probe independent, system bandwidth 1 - 25 MHz | |

256 shades of gray
 Dynamic range > 400dB in system level (composite dynamic level)
 Adjustable dynamic range
 Adjustable Field Of View (FOV): Up to 168 degree (depending on probe)
 Image Reverse: right/left
 Image rotation: 4 steps of 0°, 90°, 180°, 270°

Digital B-Mode

Acoustic power output: 0 – 100%, 25 steps
 Gain: from 0 – 90 dB, 1 dB step
 Dynamic range: 36 – 96 dB, 3 dB or 6 dB steps
 Frame averaging: 8 steps
 Gray scale map: 7 types
 Tint map: 9 types
 Frequency: up to 5 selectable (depending on probe)
 Speed of sound (probe, application dependent)
 Line density: 5 steps
 Line density zoom: 5 steps
 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: $\pm 12^\circ$
 Scanning size (FOV or angle – depending on the probe)
 SRI-HD: up to 6 levels selectable
 CrossXBeam: up to 9 angles selectable
 Depth: 1 – 48 cm, 1 cm step, probe dependent

Digital M-Mode

B/M-Mode frame rate: 1000 fps
 Gain: -20 – 20 dB, 1 dB step
 Compression: 0.5 – 2.4, 13 steps
 Sweep speed: 0 – 7, 8 steps
 Frame averaging
 Gray scale map: 7 types
 M colorization: 9 types
 Frequency
 Line density
 Scanning size (FOV or angle – depending on probe, see probe specifications)
 Rejection: 6 steps
 M/PW display format: V-1/3B, V-1/2B, V-2/3B, H-1/2B, H-1/4B, timeline only

Anatomical M-Mode

M-Mode cursor adjustable at any plane
 Can be activated from a CINE loop, from a live or stored image
 M & A capability
 Available with Color Flow Mode
 Curved Anatomical M-Mode

Digital Spectral Doppler Mode

| | |
|-------------|--|
| Adjustable: | <ul style="list-style-type: none"> • Acoustic power: 0 – 100, 25 steps • Gain: 0 – 85, 86 steps • Gray scale map: 8 types • Transmit frequency: up to 5 steps, depends on probe • Wall filter: 5.5 – 5000 Hz, 27 steps • PW colorization: 6 types • Velocity scale range: 8 steps • Sweep speed: 8 steps • Sample volume length: 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 mm • Angle correction: $\pm 90^\circ$, 1° step • Steered linear: 7 steps • Spectrum inversion: on/off • Trace method: 3 steps • Baseline shift: 5 to 95%, 11 steps • Doppler auto trace: 3 steps • Compression: 12 steps • Trace direction: 3 steps • Trace sensitivity: 21 steps |
|-------------|--|

Digital Color Flow Mode

Color Flow Mode (CFM) frame rate: 578 fps

Baseline: 0 – 100%, 11 steps

Invert: on/off

CF/PDI focus depth: default pre-settable for 10 – 100% of ROI in depth, 6 steps

CF/PDI flash suppression: 5 steps

CF/PDI angle steer: 0, $\pm 20^\circ$

Packet size: 8 – 24, dependent on probe and application

Line density: 5 steps

Line density zoom: 5 steps

Frame average: 7 steps

PRF: 0.1 – 23.5 kHz/20 steps

Spatial filter: 6 steps

Gain: 0 – 40 dB, 0.5 dB steps

Composite dynamic range: 174 – 270 dB, 3 dB or 6 dB steps

Wall filter: 4 steps, dependent on probe and application

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, depending on probe

Color maps, including velocity-variance maps: 20 types depending on application

Transparent: 5 steps

Color threshold: 0 – 100%, 11 steps

Arbitration threshold: 15 steps pre-settable

Auto line density: on/off pre-settable

PW/CF ratio: 1, 2, 4

Accumulation: 8 steps

Quantification

Digital Power Doppler Imaging

PDI map: 16 types

CF/PDI focus depth: default pre-settable for 10 – 100% of ROI in depth, 6 steps

CF/PDI acoustic output: 0 – 100%, 10% steps

| | |
|--|---|
| CF/PDI angle steer: 0, ±20° | |
| Packet size: 8 – 24, dependent on probe and application | |
| Spatial filter: 6 steps | |
| Frame average: 7 steps | |
| PRF: 0.1 – 23.5 kHz/20 steps | |
| Power threshold: 0 – 100%, 11 steps | |
| Arbitration threshold: 15 steps pre-settable | |
| Gain: 0 – 40 dB, 0.5 dB steps | |
| Wall filter: 4 steps depending on probe and application | |
| CF/PDI frequency: up to 5 steps, depending on probe | |
| Auto line density: on/off pre-settable | |
| Transparent: 5 steps | |
| Invert: on/off | |
| Accumulation: 8 steps | |
| Flash suppression | |
| PW/CW Wave Doppler | |
| Velocity scale: | <ul style="list-style-type: none">• Max. 10.34 m/s• Min. 0.06 m/s |
| Gray scale map: 8 types | |
| Baseline: 5 – 95%, 11 steps | |
| SV gate: 1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16 mm | |
| 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, timeline only | |
| Duplex: on/off (PW only) | |
| PW/CF ratio: 1, 2, 4 | |
| Gain: 0 – 85 dB, 1 dB steps | |
| Wall filter: 5.5 – 5000 Hz, 27 steps, dependent on probe and application | |
| PW angle steer: 0, ±10, 15, 20° | |
| PRF: 0.5 – 26.7 kHz with PW, 0.4 – 49.0 kHz with CW | |
| Sample volume depth: 30 steps default pre-settable | |
| CW-Mode is available on the following probes: | <ul style="list-style-type: none">• 3Sc-RS• 6S-RS• 12S-RS• P2D• P8D• P6D |
| Steerable CW Mode includes | |
| Transmit frequency | |
| CW colorization | |
| Velocity scale range | |
| Spectrum inversion | |
| Trace method | |
| Doppler auto trace | |
| Trace direction | |
| Trace sensitivity | |
| Automatic Optimization | |

Optimize B-Mode, B-Flow image to improve contrast resolution. Selectable amount of contrast resolution improvement (low, medium, high) pressing one button

Auto TGC

CTO

Auto-spectral optimize adjustable by pressing one button

- Baseline
- Invert
- PRF (on live image)
- Angle correction

Coded Harmonic Imaging

Available on all imaging probes

Line density: 5 steps

Line density zoom 5 steps

Suppression: 6 steps

Edge enhance: 7 steps

Gray scale map: 7 types

Tint map: 9 types

Gain: 0 – 90 dB, 1 dB step

Dynamic range: 36 – 96 dB, 3 dB or 6 dB steps

Rejection: 6 steps

Frequency: up to 4 steps, probe depended

B-Flow/B-Flow color (option)

Available on C1-6-D, C2-7-D, C3-10-D, 10C-D, 9L-RS, 12L-RS, ML6-15-RS, L8-18i-RS, C1-5-RS, 8C-RS, L6-12-RS, L4-12t-RS, L10-22-RS, L3-9i-RS, E8CS-RS, BE9CS-RS, L3-12-RS, IC9-RS, E7C8L-RS probes

Hybrid B-Flow: Available on C1-5-RS, 12L-RS, 9L-RS, ML6-15-RS, L4-12t-RS, L3-12-RS, C1-6-D, C2-7-D, C3-10-D and 10C-D

B & B-Flow simultaneous dual display

B & B-Flow overlay display

B-Flow High Definition Color (HD Color): Available on C1-5-RS, 12L-RS, ML6-15-RS, L4-12t-RS, L3-12-RS and C1-6-D probes

Background: on/off

Sensitivity/PRI: 17 steps

Line density: 5 steps

Edge enhance: 7 steps

Frame average: 8 steps

Gray scale map: 8 types

Tint map: 9 types

Dynamic range: 36 – 96 dB, 3 dB or 6 dB steps

Rejection: 6 steps

Gain: 0 – 90 dB, 1 dB step

Dual Beam: on/off pre-settable

B-Flow Color: 8 color maps and 6 directional maps

Accumulation: 8 steps

Coded Contrast Imaging (option.)

AM mode : Available on C1-6-D, C2-7-D, M5Sc-RS, C1-5-RS, 9L-RS, 3Sc-RS, BE9CS-RS, IC9-RS, E7C8L-RS

HRes mode : Available on C1-6-D, C2-7-D, M5Sc-RS, C1-5-RS, 9L-RS, 3Sc-RS

AM mode frequency : General, Resolution and Penetration

HRes mode frequency : General

Tissue background selection: 4 steps

Display tissue image and contrast enhanced image simultaneously in split screen

| | |
|--|--|
| 2 separate contrast timers | |
| Timed updates: 0.05 – 10 seconds | |
| Accumulation mode: 6 steps | |
| Max Enhancement Mode: on/off | |
| Gray scale map: 21 types | |
| Colorization: on/off | |
| Time trigger scan: 0.3 & 0.5 – 10 sec, 0.5 sec step | |
| Flash/Burst Mode | |
| Time Intensity Curve (TIC) analysis | |
| Auto MI control | |
| The LOGIQ P10 (LOGIQ P10 <i>XDclear</i>) is designed for compatibility with commercially available ultrasound contrast agents. Because the availability of these agents is subject to government regulation and approval, product features intended for use with these agents may not be commercially marketed nor made available before the contrast agent is cleared for use. Contrast related product features are enabled only on systems for delivery to an authorized country or region of use. | |
| LOGIQView (option) | |
| Extended Field of View imaging | |
| Available on all imaging probes | |
| For use in B-Mode | |
| CrossXBeam is available on linear probes | |
| Auto detection of scan direction | |
| Pre or post-process zoom up to 10x | |
| Rotation | |
| Auto best fit on monitor | |
| Measurements in B-Mode | |
| Up to 60 cm scan length | |
| Easy 3D (available on all imaging probes) | |
| Colorize image | |
| Threshold (opacity) | |
| Render | |
| Texture | |
| Gray surface | |
| Scalpel | |
| Auto movie | |
| Undo | |
| Reset | |
| Allows unlimited rotation and planar translation | |
| 3D reconstruction from CINE sweep | |
| Advanced 3D (Available On All Imaging Probes) (option) | |
| Acquisition of color data | |
| Automatic rendering | |
| 3D landscape technology | |
| 3D movie | |
| Main Mode | |
| Real-time 4D (option) | |
| Acquisition modes: | <ul style="list-style-type: none">• Real-time 4D mode• Static 3D mode |

| | |
|--|--|
| Visualization modes: | <ul style="list-style-type: none"> • 3D rendering (diverse surface and intensity projection modes) • Sectional planes (3 section planes perpendicular to each other) • Volume contrast imaging-static • Tomographic ultrasound imaging |
| Render mode: | <ul style="list-style-type: none"> • Surface texture, surface smooth, max-, min- and X-ray (average intensity projection), mix mode of two render modes |
| Curved 3 point Render start | |
| 3D Movie | |
| Scalpel: 3D Cut tool | |
| Display format: | <ul style="list-style-type: none"> • Quad: A-/B-/C-Plane/3D • -Dual: A-Plane/3D • Single: 3D or A- or B- or C-Plane |
| Automated Volume Calculation - VOCAL II (option) | <ul style="list-style-type: none"> • Betaview • Auto sweep |
| STIC (option) | |
| HDlive™ (option) | |
| VCI Static (option) | |
| Omniview (option) | VCI OmniView |
| Scan Assistant (option) | |
| Workflow enhancement tool for standardized and repetitive exams | |
| Include factory programs | |
| User-defined programs and import functionality | |
| Steps include image annotations, mode transitions, basic imaging controls and measurement initiation | |
| Compare Assistant (Option) | |
| Side-by-side comparison of previous ultrasound and other modality exams during live scanning | |
| Report Writer (option) | |
| On-board reporting package automates report writing | |
| Formats various exam results into a report suitable for printing or reviewing on a standard PC | |
| Exam results include patient info, exam info, measurements, calculations, images, comments and diagnosis | |
| Standard templates provided | |
| Customizable templates | |
| Thyroid reporting template | |
| Vascular, GYN, pediatric, OB, abdominal, fetal echo, MSK, small parts | |
| Elastography (option) | |
| Available on C1-6-D, C1-5-RS, ML6-15-RS, 9L-RS, 12L-RS, L6-12-RS, L4-12t-RS, E8CS-RS, BE9CS-RS, L3-12-RS, IC9-RS probes | |
| Elastography for applications such as breast, abdomen, musculoskeletal, thyroid etc. | |
| E index: 8 maximum | |
| E ratio: 7 maximum | |
| B Steer+ (option) | |
| Available on C1-5-RS, 8C-RS, L6-12-RS, 12L-RS, 9L-RS, ML6-15-RS, L4-12t-RS, L3-12-RS, RAB2-6-RS, C1-6-D, C2-7-D, C3-10-D, E7C8L-RS (only E7C8L Linear transducer) and 10C-D probes | |

TVI (option)

Myocardial Doppler Imaging with color overlay on tissue image

Available on all sector probes

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

Curved Anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane

Q-Analysis: Multiple time-motion trace display from selected points in the myocardium

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 creating new templates

Reference scan display during acquisition for stress level comparison (dual screen)

Baseline level/previous level selectable

Raw data continuous capture (over 180 sec available)

Wall motion scoring (bulls-eye and segmental)

Smart stress: automatically set up various scanning parameters (e.g. geometry, frequency, gain, etc.) according to same projection on previous level

Shear Wave Elastography (Option)

Available on C1-5-RS, L3-12-RS, IC9-RS, ML6-15-RS, C1-6-D and 12L-RS probes

User programmable measurement display in kPa and meters per sec.

Measurement range in m/s (Min. – Max.) : 0-10 m/s

Measurement range in kPa (Min. – Max.) : 0-300 kPa

Single and dual view display

Auto EF (Option)

Allows semi-automatic measurement of the global EF (Ejection Fraction)

User editable

Virtual Convex

Provides a convex Field of View

Compatible with CrossXBeam

Available on all linear and sector transducers

SRI-HD

High definition speckle reduction imaging in real time and post-processing

Provides multiple (6) levels of speckle reduction

Compatible with side-by-side DualView display

Compatible with all linear, convex and sector transducers

Compatible with B-Mode, color, contrast agent and 3D/4D imaging

Pre and post processing

CrossXBeam

Provides 3, 5, 7 or 9 angles of spatial compounding

Live side-by-side DualView display

Compatible with

- Color Mode
- PW
- SRI-HD
- Coded Harmonic Imaging
- Virtual convex on linear probes

Available on C1-5-RS, 8C-RS, E8C-RS, 9L-RS, 12L-RS, ML6-15-RS, L8-18i-RS, RAB2-6-RS, L6-12-RS, L4-12t-RS, L10-22-RS, L3-9i-RS, E8CS-RS, BE9CS-RS, RIC5-9A-RS, L3-12-RS, IC9-RS, C3-10-D, E7C8L-RS probes

Controls Available While "Live"

Write zoom

B/M/CrossXBeam-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
- Dynamic range
- Acoustic output
- Transmission frequency
- PRF
- Wall filter
- Spectral averaging
- Sample volume gate
 - Length
 - Depth
- Velocity scale

Color Flow-Mode

- CFM gain
- CFM velocity range
- Acoustic output
- Wall echo filter
- Packet size
- Frame rate control
- CFM spatial filter
- CFM frame averaging
- CFM line resolution
- Frequency/velocity baseline shift

Controls Available on "Freeze" or Recall

Automatic optimization

SRI-HD

CrossXBeam – display non-compounded and compounded image simultaneously in split screen

3D reconstruction from a stored CINE loop

B/M/CrossXBeam-Mode

- Gray map optimization
- TGC
- Colorized B and M
- Frame average (loops only)
- Dynamic range

Anatomical M-Mode

Max. read zoom to 20x in real time

Baseline shift

Sweep speed

| | |
|--------------------------------|--|
| PW-Mode | <ul style="list-style-type: none"> • Gray map • Post gain • Baseline shift • Sweep speed • Invert spectral wave form • Compression • Rejection • Colorized spectrum • Display format • Doppler audio • Angle correct • Quick angle correct • Auto angle correct |
| Color Flow-Mode | <ul style="list-style-type: none"> • Overall gain (loops and stills) • Color map • Transparency map • Frame averaging (loops only) • Flash suppression • CFM display threshold • Spectral invert for Color/Doppler |
| Anatomical M-Mode on CINE loop | |
| 4D | <ul style="list-style-type: none"> • Gray map, colorize • Post gain • Change display – single, dual, quad sectional or rendered |

Measurements/Calculations

Available Applications

Abdominal, Cardiac, Vascular, Small Parts, OB & GYN, Urology, Pediatrics, Fetal Echo, Musculoskeletal etc.

General B-Mode

Depth & distance

Circumference (ellipse/trace)

Area (ellipse/trace)

Volume (ellipsoid)

% Stenosis (area or diameter)

Angle between two lines

General M-Mode

M-Depth

Distance

Time

Slope

Heart rate

General Doppler Measurements/Calculations

Velocity

Time

A/B ratio (Velocities/Frequency ratio)

PS (Peak Systole)

ED (End Diastole)

PS/ED ratio

ED/PS ratio

| | |
|--|---|
| AT (Acceleration Time) | |
| ACC (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) | |
| AT (Acceleration Time) | |
| ACC (Acceleration) | |
| PS/ED ratio | |
| 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: | <ul style="list-style-type: none">• 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)• LV (Length of Vertebra)• 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: | <ul style="list-style-type: none">• AC, BPD• AC, BPD, FL• AC, BPD, FL, HC• AC, FL• AC, FL, HC• AC, HC• BPD, APTD, TTD, FL• BPD, APTD, TTD, SL |

| | |
|---|---|
| Calculations and ratios | <ul style="list-style-type: none"> • FL/BPD • FL/AC • FL/HC • HC/AC • CI (Cephalic Index) • AFI (Amniotic Fluid Index) • CTAR (Cardio-Thoracic Area Ratio) |
| Measurements/calculations by: ASUM, ASUM 2001, Bahlmann, Baschat, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chitty, Ebbing, Eik-Nes, Ericksen, Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kurmanavicius, Kurtz, Mari, Mayden, Mercer, Merz, Moore, Nelson, Osaka Univ., Paris, Rempen, Robinson, Shepard, Shepard/Warsoff, Tokyo Univ., Tokyo/Shinozuka, WHO, Yarkoni | |
| Fetal graphical trending | |
| Growth percentiles | |
| Multi-gestational calculations (4) | |
| Fetal qualitative description (anatomical survey) | |
| Fetal environmental description (biophysical profile) | |
| Programmable OB tables | |
| Over 20 selectable OB calcs | |
| Expanded worksheets | |
| Growth percentiles: Hadlock, Brenner, Williams, Kramer (f), Kramer (m) | |
| Measure Assistant Breast (Option) | |
| Allows automatic contour and measurement of breast lesions in a user selected ROI | |
| Feature assessment | |
| BI-RADS® assessment | |
| User editable | |
| Measure Assistant OB (Option) | |
| Allows automatic measurement of BPD, HC, FL and AC | |
| User editable | |
| 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 | |
| IOTA (International Ovarian Tumor Analysis) LR2 worksheet | |
| <i>Note) IOTA is not available in USA, Japan and China.</i> | |
| Summary reports | |
| Vascular Measurements/Calculations | |
| SYS DCCA (Systolic Distal Common Carotid Artery) | |
| DIAS DCCA (Diastolic Distal Common Carotid Artery) | |
| SYS MCCA (Systolic Mid Common Carotid Artery) | |
| DIAS MCCA (Diastolic Mid Common Carotid Artery) | |
| SYS PCCA (Systolic Proximal Common Carotid Artery) | |
| DIAS PCCA (Diastolic Proximal Common Carotid Artery) | |

| |
|--|
| SYS DICA (Systolic Distal Internal Carotid Artery) |
| DIAS DICA (Systolic Distal Internal Carotid Artery) |
| SYS MICA (Systolic Mid Internal Carotid Artery) |
| DIAS MICA (Diastolic Mid Internal Carotid Artery) |
| SYS PICA (Systolic Proximal Internal Carotid Artery) |
| DIAS PICA (Diastolic Proximal Internal Carotid Artery) |
| SYS DECA (Systolic Distal External Carotid Artery) |
| DIAS DECA (Diastolic Distal External Carotid Artery) |
| SYS PECA (Systolic Proximal External Carotid Artery) |
| DIAS PECA (Diastolic Proximal External Carotid Artery) |
| VERT (Systolic Vertebral Velocity) |
| SUBCLAV (Systolic Subclavian Velocity) |
| Auto IMT |
| Summary reports |
| Urological Measurements/Calculations |
| Bladder volume |
| Prostate volume |
| Stepper volume |
| Left/right renal volume |
| Generic volume |
| Post-void bladder volume |
| Cardiac Measurements/Calculations |
| Cardiac calculation package including extensive measurements and display of multiple repeated measurements |
| Parameter annotation follow ASE standard |
| My Trainer+ |
| An electric manual for first time user for the system |
| Available self-setup system |
| System setup |
| Maintenance |
| Ergonomics |
| Basic operation (button/layout/touch panel layout/monitor layout/basic workflow) |
| My Page |
| Collection of user's favorite parameters from measurement/comments/body patterns |
| Programmable buttons |
| Measurement for B/M/Doppler |
| User defined annotation for selected exam category |
| Body pattern for the selected exam category |
| Function Available Arrow; Create Macro, Eject, Grab Last, Help, Home, My Trainer, Set Home. Spooler, Text Overlay, Word Delete |
| Offline Scanning |
| Normal scanning with battery |
| Indication/message |
| Battery capacity |
| Battery operation |
| Power assistant in low battery |
| Probes |
| Probes |

C1-6-D, C2-7-D, C3-10-D, 10C-D, C1-5-RS, 8C-RS, E8C-RS, E8CS-RS, BE9CS-RS, 9L-RS, 12L-RS, L8-18i-RS, L6-12-RS, L4-12t-RS, L10-22-RS, L3-9i-RS, ML6-15-RS, 3Sc-RS, M5Sc-RS, 6S-RS, 12S-RS, RAB2-6-RS, RIC5-9A-RS, P6D, P8D, L3-12-RS, IC9-RS, 6Tc-RS, E7C8L-RS, P2D

C1-5-RS Convex Probe

Applications: Abdomen, Vascular, OB/GYN, Urology

Probe band width: 1 - 6 MHz

Number of element: 192

Convex radius: 55 mmR

FoV (max): 70°

Physical foot print: 67 x 11.5 mm

B-Mode frequency: 2, 3, 4 MHz

Harmonic frequency: 3, 4, 5 MHz

Doppler frequency: 1.9, 2.1, 2.5, 3.6 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (40432LE)

C1-6-D Convex Probe

Applications: Abdomen, OB, Gynecology, Vascular, Urology

Probe band width: 1 - 6 MHz

Number of element: 192

Convex radius: 55 mmR

FoV (max): 70°

Physical foot print: 67.2 x 11.5 mm

B-Mode frequency: 2, 3, 4, 5, 6 MHz

Harmonic frequency: 1.5, 2.5, 2.8, 3, 4, 5, 6 MHz

Doppler frequency: 1.7, 1.9, 2.1, 2.5, 3.1, 3.6 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H4913BB)

C2-7-D Convex Probe

Applications: Abdomen

Probe band width: 1 - 6 MHz

Number of element: 144

Convex radius: 19.74 mmR

FoV (max): 110°

Physical foot print: 29.7 x 10.5 mm

B-Mode frequency: 2.5, 4, 5, 6 MHz

Harmonic frequency: 3, 4, 5, 6 MHz

Doppler frequency: 2.1, 2.5, 3.6, 4.2 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H40482LK) or a reusable stainless bracket (H40482LK)

C3-10-D Convex Probe

Applications: Neonatal, Pediatric, Vascular

Probe band width: 2 - 11 MHz

Number of element: 192

Convex radius: 15 mmR

FoV (max): 99°

Physical foot print: 25.9 x 4.9 mm

B-Mode frequency: 4, 6, 8 MHz

Harmonic frequency: 6, 8, 10 MHz

Doppler frequency: 3.6, 4.2, 5.0, 6.3, 7.7, 8.3 MHz

Biopsy guide: none

10C-D Convex Probe

Applications: Neonatal, Pediatrics, Vascular

| |
|--|
| Probe band width: 4 – 12 MHz |
| Number of element: 128 |
| Convex radius: 10 mmR |
| FoV (max): 102° |
| Physical foot print: 17.9 x 4.8 mm |
| B-Mode frequency: 4, 6, 8, 10 MHz |
| Harmonic frequency: 7, 8, 9, 10 MHz |
| Doppler frequency: 4.2, 5.0, 6.3, 7.4, 8.3 MHz |
| Biopsy guide: none |

8C-RS Micro Convex Probe

| |
|---|
| Applications: Neonatal, Pediatrics |
| Probe band width: 3 - 11 MHz |
| Number of element: 128 |
| Convex radius: 10.7 mmR |
| FoV (max): 132° |
| Physical foot print: 24.7 x 5 mm |
| B-Mode imaging frequency: 6.0, 7.0, 8.0 MHz |
| Harmonic frequency: 8.0, 9.0, 10.0 MHz |
| Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz |
| Biopsy guide: none |

E8C-RS Endo Micro Convex Probe

| |
|--|
| Applications: OB/GYN, Urology, Transvaginal, Transrectal |
| Probe band width: 3 - 11 MHz |
| Number of element: 128 |
| Convex radius: 10.7 mmR |
| FoV (max): 132° |
| Physical foot print: 24.7 x 5 mm |
| B-Mode frequency: 6, 7, 8 MHz |
| Harmonic frequency: 8, 9, 10 MHz |
| Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz |
| Biopsy guide: single-angle, disposable with a disposable bracket (E8385MJ, E8333JB), single-angle, reusable bracket (H40412LN) |

E8CS-RS Endo Micro Convex Probe

| |
|--|
| Applications: OB/GYN (Transvaginal), Urology (Transrectal) |
| Probe band width: 3 - 11 MHz |
| Number of element: 128 |
| Convex radius: 8.7 mmR |
| FoV (max): 168° |
| Active area: 25.6 x 4.3 mm |
| B-Mode frequency: 6, 7, 8 MHz |
| Harmonic frequency: 7, 8, 9, 10 MHz |
| Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz |
| Biopsy guide: single-angle, disposable with a disposable bracket (E8385MJ, E8333JB), single-angle, reusable bracket (H40412LN) |

IC9-RS Endo Micro Convex Probe

| |
|---|
| Applications : OB/GYN, Urology, (Transvaginal, Transrectal) |
| Probe band width: 2 - 11 MHz |
| Number of element: 192 |
| Convex radius: 9.24 mmR |

| |
|--|
| FoV (max): 168° |
| Physical foot print: 24.2 x 6 mm |
| B-Mode frequency: 6, 7, 8 MHz |
| Harmonic frequency: 7, 8, 9 MHz |
| Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz |
| Biopsy guide: single-angle, disposable with a disposable bracket (H48691YW), single-angle, reusable bracket (H48701MN) |

BE9CS-RS Biplane Micro Convex Probe

| |
|--|
| Applications: Urology, Transrectal |
| Probe band width: 3 - 12 MHz |
| Number of element: 96 x 2 |
| Convex radius: 9 mmR |
| FoV (max): 127° |
| Active area: 20.8 x 5 mm |
| B-Mode frequency: 6, 8, 10 MHz |
| Harmonic frequency: 8, 9, 10 MHz |
| Doppler frequency: 4.2, 5.0, 6.3 MHz |
| Biopsy guide: single-angle, reuseable (E8387MA), disposable (E8387M), disposable starter kit (H42742LH), disposable starter kit (H42742LJ) |

RAB2-6-RS Convex Volume Probe

| |
|--|
| Applications: Abdomen, OB/GYN, Urology |
| Probe band width: 1 - 5 MHz |
| Number of element: 128 |
| Convex radius: 47 mmR |
| FoV (max): 66°, volume angle: 85° |
| Physical foot print: 53.8 x 13 mm |
| B-Mode frequency: 3, 4, 5 MHz |
| Harmonic frequency: 4, 5, 6 MHz |
| Doppler frequency: 1.9, 2.5, 3.1, 3.6 MHz |
| Biopsy guide: multi-angle, disposal with reusable bracket (H48681ML) |

RIC5-9A-RS Convex Volume Probe

| |
|---|
| Applications: OB/GYN, Urology, Endocavity |
| Probe band width: 3 - 10 MHz |
| Number of element: 192 |
| Convex radius: 10.1 mmR |
| FoV (max): 146°, volume angle: 120° |
| Active area: 26.5 x 6 mm |
| B-Mode frequency: 5, 7, 9 MHz |
| Harmonic frequency: 7, 8, 9 MHz |
| Doppler frequency: 3.6, 4.2, 5.0, 6.3 MHz |
| Biopsy guide: single-angle, reusable bracket (H46721R), single-angle, disposable (H48681GF) |

ML6-15-RS Matrix Array Linear Probe

| |
|---|
| Applications: Small Parts, Vascular, Pediatric, Neonatal, Musculoskeletal |
| Probe band width: 4 - 15 MHz |
| Number of element: >1000 |
| FoV (max): 50.4 mm |
| Physical foot print: 50.4 x 6 mm |
| B-Mode frequency: 9, 11, 13, 15 MHz |
| Harmonic frequency: 8, 10, 12, 15 MHz |

Doppler frequency: 5, 6.3, 8.3 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H40432LJ)

12L-RS Linear Probe

Applications: Small Parts, Vascular, Pediatric, Neonatal, Musculoskeletal

Probe band width: 3 - 12 MHz

Number of element: 192

FoV (max): 38.4 mm

Physical foot print: 38.4 x 4 mm

B-Mode frequency: 7, 9, 11 MHz

Harmonic frequency: 9, 11, 12 MHz

Doppler frequency: 4.2, 5, 6.3, 8.3 MHz

Biopsy guide: Multi-angle, disposable with a reusable bracket (H40432LC)

9L-RS Linear Probe

Applications: Vascular, Small Parts, Pediatric, Abdomen

Probe band width: 2 - 8 MHz

Number of element: 192

FoV (max): 44.2 mm

Physical foot print: 44.2 x 6 mm

B-Mode frequency: 5, 7, 9 MHz

Harmonic frequency: 8, 9, 10 MHz

Doppler frequency: 3.1, 3.6, 4.2, 5 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H4906BK)

L6-12-RS Linear Probe

Applications: Small Parts, Vascular, Pediatric, Neonatal, Abdomen, Musculoskeletal

Probe band width: 5 - 11 MHz

Number of element: 128

FoV (max): 38.4 mm

Physical foot print: 38.4 x 4 mm

B-Mode frequency: 7, 9, 11 MHz

Harmonic frequency: 9, 11, 12 MHz

Doppler frequency: 4.2, 5, 6.3, 8.3 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H40432LC)

L8-18i-RS Linear Probe

Applications: Small Parts, Vascular, Pediatric, Neonatal, Intraoperative(Not for China), Musculoskeletal

Probe band width: 4 - 15 MHz

Number of element: 168

FoV (max): 25.2 mm

Physical foot print: 25.2 x 4 mm

B-Mode frequency: 8, 9, 12, 15, 18 MHz

Harmonic frequency: 9, 15, 18 MHz

Doppler frequency: 5, 6.3, 8.3 MHz

Biopsy guide: none

L4-12t-RS Linear Probe

Applications: Small Parts, Vascular, Pediatric, Neonatal, Musculoskeletal

Probe band width: 3 - 12 MHz

Number of element: 192

FoV (max): 38.4 mm

Active area: 38.4 x 4 mm

B-Mode frequency: 7, 9, 11 MHz

Harmonic frequency: 9, 11, 12 MHz

Doppler frequency: 4.2, 5, 6.3, 8.3 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H40432LC), multi-angle, disposable with a reusable bracket (H48392LL), multi-angle, disposable with a reusable bracket (H48392LT)

L10-22-RS Linear Probe

Applications: Small Parts, Neonatal, Musculoskeletal

Probe band width: 7 - 20 MHz

Number of element: 128

FoV (max): 12.8 mm

Active area: 12.8 x 1.5 mm

B-Mode frequency: 10, 12, 16, 20 MHz

Harmonic frequency: 16, 19, 22 MHz

Doppler frequency: 11.1, 12.5, 14.3 MHz

Biopsy guide: none

L3-9i-RS Linear Probe

Applications: Small Parts, Vascular, Neonatal, Musculoskeletal, Intraoperative (Not for China)

Probe band width: 2 - 9 MHz

Number of element: 192

FoV (max): 38.4 mm

Active area: 38.4 x 4 mm

B-Mode frequency: 5, 7, 9 MHz

Harmonic frequency: 7, 8, 9, 10 MHz

Doppler frequency: 3.6, 4.2, 5 MHz

Biopsy guide: none

L3-12-RS Linear Probe

Applications: Vascular, Small Parts, Neonatal, Pediatrics, Abdomen

Probe band width: 2 - 11 MHz

Number of element: 256

FoV (Max): 51.2 mm

Physical foot print: 51.2 x 5 mm

B-Mode frequency: 5.0, 7.0, 9.0, 11.0 MHz

Harmonic frequency: 8, 10, 12 MHz

Doppler frequency: 3.6, 4.2, 5, 6.3, 8.3 MHz

Biopsy guide: multi-angle, disposable with a reusable bracket (H48302AA)

3Sc-RS Phased Array Sector Probe

Applications: Cardiac, Transcranial, Abdomen

Probe band width: 1 - 5 MHz

Number of element: 64

FoV (max): 120°

Physical foot print: 15 x 14 mm

B-Mode frequency: 2, 3, 4 MHz

Harmonic frequency: 3, 3.5, 4.0, 5.0 MHz

Doppler frequency: 1.7, 2.1, 2.5, 3.1, 3.6 MHz

Biopsy guide: multi-angle, reusable bracket (H46222LC)

M5Sc-RS Phased Array Sector Probe

Applications: Cardiac, Transcranial, Stress

Probe band width: 1 - 5 MHz

| |
|--|
| Number of element: 80 x 3 |
| FoV (max): 120° |
| Physical foot print: 27.5 x 18.1 mm |
| B-Mode frequency: 2, 3, 4 MHz |
| Harmonic frequency: 3, 3.2, 3.3, 3.7, 4.5, 4.6 MHz |
| Doppler frequency: 1.6, 1.8, 2.1, 2.5, 3.1 MHz |
| Biopsy guide: multi-angle, reusable bracket (H45561FC) |

6S-RS Phased Array Sector Probe

| |
|--|
| Applications: Cardiac Neonatal, Pediatric |
| Probe band width: 2 - 8 MHz |
| Number of element: 64 |
| FoV (max): 90° |
| Physical foot print: 10.2 x 5.5 mm |
| B-Mode frequency: 4, 5, 6.5, 8 MHz |
| Harmonic frequency: 4.8, 5.4, 6.2 MHz |
| Doppler frequency: 2.8, 3.1, 3.6, 4.2, 5.0 MHz |
| Biopsy guide: none |

12S-RS Phased Array Sector Probe

| |
|-----------------------------------|
| Applications: Pediatric, Neonatal |
| Probe band width: 4 - 12 MHz |
| Number of element: 96 |
| FoV (max): 90° |
| Active area: 9.3 x 5.5 mm |
| B-Mode frequency: 7, 8, 9 MHz |
| Harmonic frequency: 7, 8, 9 MHz |
| Doppler frequency: 5.0, 6.3 MHz |
| Biopsy guide: none |

P8D CW Split Crystal Probe

| |
|---------------------------------|
| Applications: Cardiac, Vascular |
|---------------------------------|

P6D CW Split Crystal Probe

| |
|---------------------------------|
| Applications: Cardiac, Vascular |
|---------------------------------|

P2D CW Split Crystal Probe

| |
|---------------------------------|
| Applications: Cardiac, Vascular |
|---------------------------------|

6Tc-RS TEE Sector (Trans-esophageal) Probe

| |
|--|
| Applications : Cardiac (Transesophageal) |
| Probe band width: 2 - 8 MHz |
| Number of element: 64 |
| FoV (Max): 90° |
| Physical foot print: 14 x 12 mm |
| B-Mode frequency: 6.0, 7.0, 8.0 MHz |
| Harmonic frequency: 6 MHz |
| Doppler frequency: 2.8, 3.1, 3.6, 4.2, 5 MHz |
| Biopsy guide: none |

E7C8L-C-RS Biplane Convex Probe

| |
|-------------------------------------|
| Applications: Urology (Transrectal) |
| Convex Probe band width: 4 - 11 MHz |
| Number of element: 128 |
| Convex radius: 8 mmR |
| Convex FoV (max): 136° |

Convex foot print: 17.2 x 10.3 mm

B-Mode frequency: 5, 6, 7 MHz

Harmonic frequency: 6, 8, 10 MHz

Doppler frequency: 4.2, 5.0, 6.3, 8.3 MHz

Biopsy Biopsy attachment : Ladder (H40202E),

AccuCARE Disposable Template Grids (17GA) 610-905

AccuCARE Disposable Template Grids (18GA) 610-906

E7C8L-L-RS Biplane Linear Probe

Applications: Urology (Transrectal)

Linear Probe band width: 3 - 11 MHz

Number of element: 128

Linear foot print: 57.6 x 9.1 mm

B-Mode frequency: 6, 7, 8 MHz

Harmonic frequency: 7, 9, 11 MHz

Doppler frequency: 4.2, 5.0, 6.3, 8.3 MHz

Biopsy Biopsy attachment : Ladder (H40202E),

AccuCARE Disposable Template Grids (17GA) 610-905

AccuCARE Disposable Template Grids (18GA) 610-906

Inputs and Outputs

HDMI out

Ethernet network (RJ45)

External audio out

USB ports

- OPIO Ext USB3.0 x 2 pcs
- Monitor USB2.0 x 2 pcs
- Rear USB2.0 x 3 pcs

AC power input

Probe connectors

Regulatory and Standard

Safety Conformance

The LOGIQ P10 (LOGIQ P10 *XDclear*) is:

© Classified to ANSI/AAMI ES60601-1 Medical Electrical Equipment, Part 1: General Requirements for Safety by a Nationally Recognized Test Lab

© Certified to CSA CAN/CSA-C22.2 NO. 60601-1 General requirements for safety

© CE Marked to Regulation (EU) 2017/745 on Medical Devices Conforms to the following standards for safety:

- IEC/EN 60601-1 Medical electrical equipment – Part 1: General requirements for basic safety and essential performance
- IEC/EN 60601-1-2 Medical electrical equipment – Part 1-2: General requirements for safety – Collateral Standard: Electromagnetic compatibility – requirements and tests
- IEC/EN 60601-1-6 Medical electrical equipment Part 1 -6: General requirements for basic safety and essential performance – Collateral Standard: Usability
- IEC/EN 60601-1-9 Medical electrical equipment Part 1 -9: General requirements for basic safety and essential performance –Collateral Standard: Requirements for environmentally conscious design
- IEC/EN 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment

- IEC/EN 62366-1 Application of usability engineering to medical devices
- IEC/EN 62304 Software Life Cycle Processes
- IEC/EN 62359 Ultrasonic - Field characterization - Test methods for the determination of thermal and mechanical indices related to medical diagnostic ultrasonic fields
- EN ISO 15223-1: Symbols to be used with medical device labels, labelling and information to be supplied
- ISO 10993-1 Biological evaluation of medical devices – Part 1 Evaluation and testing
- ISO 17664-2: Processing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices
- ISO14971 (Medical devices - Application of risk management to medical devices)
- EMC Emissions Group 1, class A device requirements as per Sub clause 4.2 of CISPR 11
- WEEE (Waste Electrical and Electronic Equipment)
- RoHS according to 2011/65 EU, EU Directive 2015/863 Including national deviations
- Wireless equipment shall be certified to FCC, RED and Japan Radio Law.

© Medical Device Good Manufacturing Practice Manual issued by the FDA (Food and Drug Administration, Department of Health, USA).