

Acclarix LX9 series

Diagnostic Ultrasound
Version 1.5

Technical Specification

Incorporating innovative imaging technologies and intelligent workflows inside the slim body, the top-level Acclarix LX9 Color Doppler Ultrasound Systems delivers clear image quality and efficient scanning to meet the demands of General Imaging, Gynecology/Obstetrics and Cardiac applications. With the vision of being reliable diagnosis assistance to any Sonographer, Acclarix LX9 is designed with powerful ergonomic of articulating arm, height and direction adjustable console, and foot rest enabling the image screening seen from every angle at a ease posture, presents definitive image quality in versatile imaging modes by a complete set of transducers compacting with advanced transducer technologies, and takes the work out of workflow by reducing heavy operation procedures to one-key control through efficient and accurate measurement functions of eOB, eFollicle etc, enhancing the diagnosis confidence.

Advanced Technique and Features

TAI-Tissue Adaptive Imaging
Adaptive Doppler imaging
Frequency Compounding Imaging
Spatial Compounding Imaging
Harmonic Imaging
eSRI- Speckle Reduction Imaging
Spectrum Enhancement
Digital Multi-Beam forming
Trapezoid Imaging
Extended FOV
B Steer
Pan Zoom(Digital Zoom)
Spot Zoom(Acoustic Zoom)
Full Screen Zoom

3D/4D Imaging
Elastography mode
Contrast Imaging
ECG synchronization
Stress Echo
Auto Trace
Panorama Imaging
TDI mode



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Efficient Workflows

B mode one-key Optimization

Color mode one-key Optimization

PW mode one-key Optimization

Auto IMT

Auto NT

eOB(BPD, OFD, HC, FL, HUM, AC)

eVol.Flow

eFollicle*

eLV(Auto EF, Strain, WMSI)*

eOB+*

Live.VF*

Image Compare

eHIP*

eWorks

- Variable monitor position adjustment(height, swivel, tilt)
- View angle: right 178°,left 178°,up 178°,down 178°
- Brightness and Contrast adjustable
- Articulating arm allows monitor left/right swivel articulation: $\pm 180^\circ$ in either direction.
- Folds down for transport.

Battery

- Rechargeable Li-ion Battery
- Two batteries, total 13600mAh capacity.
- Removable
- Approximately 40min of typical ultrasound exam use for two fully charged batteries.
- When off, it takes about 2.5 hours to fully charge both batteries. When you turn it on, it takes about 5 hours to full charge. .
- Battery level icon displayed on the main screen.

System Overview

System Architecture

Physical Channels	128
Digital Channels	≤ 5529600
Gray scale	256
Beam Forming	8 beams
Processor	i5 with 6 cores
Memory	32GB
Hard Drive	1TB SSD
Operating System	64 bit Linux
System Boot-up	About 50s
Boot-up from sleep	About 3s
Shutdown	18s

Dimensions and Weight

Max.	1776 \pm 5mm(H) \times 550 \pm 3mm(W) \times 828 \pm 3
Dimension	mm(D)
Net Weight	≤ 85 kg (no batteries and peripherals)

Display Monitor

- 21.5" high resolution LED monitor
- Resolution: 1920 x 1080
- Image Size: 1050*768

Transducer Ports& Holders

- Five active transducer ports
- Electronic transducer selection
- Ergonomic access to all transducer ports
- Dedicated cable hook
- Two ultrasound gel holders. One can be configured with removable gel warmer.
- 6 integrated transducer holders on the control panel, and removable transducer cups compatible for holding all types of transducers.

AC Power Requirements

Voltage	100 -240 V~
Frequency	50 Hz/60 Hz
AC Input Current	5.2A-2.5A

Environment Requirements

Operating Environment

Ambient temperature	0° to 40°C
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Relative Humidity	15%~95%
	(no condensing)

Atmospheric pressure	86kPa-106kPa
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Storage Environment

Ambient temperature	-20° to 55°C
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Relative Humidity	15%~95%
	(no condensing)

Atmospheric pressure	70kPa-106kPa
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Language Supported

- English
- Chinese
- German
- Italian
- Spanish
- French
- Russian
- Portuguese
- Polish
- Turkish

I/O Ports

- S-Video port
- USB 3.0 port(Four)
- USB 2.0 port(Three)
- Ethernet port
- DVI port
- VGA port
- HDMI port
- Audio output port
- Microphone port

Wheel

- Diameter: 5 inch
- 4 wheels with brakes

Other Features

- eLearn instruction tool for basic scanning and nerve blocks.

- Support instructions for OB&GYN, Nerve block, and GI(ABD, Cardiac, etc) scanning.
- Provides descriptions of Transducer position, Scan technique, Standard ultrasound image, Anatomy, Needle guide, tips, etc.
- The illustration pictures can be enlarged to full touch screen display by pressing it.
- One-key full screen zoom(3 levels) by user-defined key F1 or F2.

System Ergonomic Design

- Interactive back-lighting
- 5 active transducer ports
- Touch Screen configurable User interface
- 20° Tilttable touch screen
- Control panel electronic lift up/down: 20 cm, and left/right swivel: $\pm 90^\circ$
- Articulating arm
- Display monitor left/right swivel: $\pm 180^\circ$
- Tilttable display monitor
- Retractable physical keyboard with targeted down-lighting
- 8 segment physical TGC sliders
- Rear storage tray.

User Interface

Control Panel

- Interactive back-lighting
- Plastic and Rubber Hard Keys provides tactile feedback
- Programmable store keys
- Physical trackball
- Electronic lift up/down: 20 cm
- Left/right swivel: $\pm 90^\circ$
- 8 segment TGC sliders
- Retractable keyboard with targeted down-lighting

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- High-performance audio speaker integrated with
- 6 transducer holders integrated with the control panel.
- Front and rear handles.

Touch Screen

- 14" Touch screen(resolution 1920 x 1080)
- 20° tiltable
- Gesture-control
- User configurable UI
- 5 user-defined touch screen keys
- Support visual Chinese and English QWERTY keyboard and French AZERTY keyboard for text input
- Brightness adjustable

Main Screen Display

Information Field

- EDAN logo
- Hospital name
- Date
- Time
- Patient ID
- Patient Name
- Patient Gender
- Patient Age
- Transducer model
- Preset name
- Exam preset

Image Field

- Mechanical Index (MI)
- Thermal Index (TI)
- Imaging parameters
- Gray Scale bar
- Depth Scale
- Center Mark
- Measurement result window
- TGC curve
- LMP, EDD

- Probe Temperature(the reference temperature of the patient (PAT) and the temperature of the transducer tip (TIP))

Measurements Menu Field

- Available generic and application measurements for current exam preset.
- Pre-categorized measurement groups.
- Consistent with the display on Measurement Touch Screen(14-inch).

Thumbnail Field(Clipboard)

- All captured static images and cine clips
- Shortcut keys for selecting, viewing, deleting, exporting images
- Quick viewing the thumbnail in the image area.
- Cloud Share

User Feedback Field

- Virtual trackball and trackball keys display
- Cine bar

Status Bar

- Image Store Icon
- USB Icon
- Printer Icon
- WIFI Icon
- Task Manager Icon
- Hard Drive Icon
- DVD Icon
- Battery Icon
- Current active functions of user-defined key F1 and F2

User Login Management

- Supports User Login at boot up.
- Supports user type of Administrator and Operator.

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- Supports switching users without powering off the system.
- Support an Emergency user login for emergency use.

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Exam Presets

- System pre-defined exam presets include(Transducer specific) :

- ABD
- ABD Diff
- EM ABD
- Early OB
- OB
- Fetal Echo
- GYN
- Renal
- Aorta
- Spine
- Prostate
- Thyroid
- Breast
- Testis
- Carotid
- Low Ext A (Lower Extremity Artery)
- Low Ext V (Lower Extremity Vein)
- Up Ext A (Upper Extremity Artery)
- Up Ext V (Upper Extremity Vein)
- Nerve
- Sup Nerve (Superficial Nerve)
- MSK
- Sup MSK (Superficial MSK)
- Shoulder
- Vascular
- Adult Cardiac
- Pediatric Cardiac
- Intra-operative
- Pediatric Abd
- Neonatal Abd
- Neonatal Head
- Vascular Access
- IVF
- FAST
- Appendix
- HIP

- User customizable presets: Copy, Delete, Save, Save as
- Exam presets are configurable in Set-up.
- Supports a second page, up to 30 presets per transducer.
- Each preset can share comment and body mark measure presets.
- Exam mode layout customizable

Annotations

Comments

- User-programmable home position
- Arrow with user controlled orientation
- Arrow size adjustable
- Soft touch keyboard
- Block move and delete for separate blocks of text
- About 600 pre-defined comments for different presets
- User customizable

Body Mark

- Up to 126 Body Mark graphics in library
- Support separate body mark in Dual and Quad
- User customizable

Imaging

Imaging Modes

B-mode

M-mode

- M-mode
- Anatomic M mode(1/2/3-line AMM and Curved AMM)
- Color M mode

Color Doppler

- Velocity-based color Doppler
- PDI
- DPDI

PW Doppler

CW Doppler

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TDI mode

- TVI(Tissue Velocity Imaging)
- TVD(Tissue Velocity Doppler)
- TVM(Tissue Velocity Motion Imaging)

3D/4D mode

Elastography Mode

Contrast Imaging

Panorama

Color Panorama

Stress Echo

- B+CW (Update)
- B/C(PDI or DPDI)+CW (Update)
- B+TVI (Dual Live)
- B+TVD (Update)
- B+TVD (Duplex)
- B+TVI+TVD (Update)
- B+TVI+TVD (Triplex)
- B+TVM
- B+E

Display Modes

Dual Imaging

- Available for B and Color(PDI/DPDI) mode.
- Displays two image side-by-side, two frozen or one active/one frozen.
- Allows to switch between two images
- Measurements and calculations are supported on each image and across the dual images.
- Annotations are supported on each image.

Quad Imaging

- Available for B and Color(PDI/DPDI) mode.
- Displays images in four quadrants, four frozen or one active/three frozen.
- Allows to switch between four images.
- Measurements and calculations are supported on each image.
- Annotations are supported on each image

Imaging Mode Combinations

- B+M
- B/C(PDI or DPDI), Single
- B/C(PDI or DPDI), Dual
- B+B/C(PDI or DPDI),Dual live
- B+Color(PDI or DPDI)+M
- B+PW (Duplex)
- B+PW (Update)
- HPRF
- B/C(PDI or DPDI)+PW (Triplex)
- B/C(PDI or DPDI)+PW (Update)

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Imaging Parameters

B- mode(Live imaging)

Image Type	Detail/General/Penetration
One-key Optimization	TGC, Gain
Pan Zoom	x0.7-x2.0, PIP(Picture in Picture) display
Spot Zoom	Available on Live B and Color image, zoom in the image in ROI box with high resolution. PIP (Picture in Picture) display.
Display Depth	1-45cm(Probe dependent)
Frequency	1-17MHz Max 5 Fundamental &5 Harmonic(Probe dependent)
eSRI	0,1,2,3,4,5,6,7
FOV	Small, Med, Large, Full
Trapezoid	Off, 1, 2, 3(3 levels for expanded view) Max. expanded angle: 10°(Linear transducer)
Steer	0°, ±10°
Gain	0-100dB
TGC	8 segments
LGC	8 segments
Dynamic Range	40-96 dB, 2dB/step
Line density	Low, Med, High ≥512 lines
Max. Frame Rate	2400f/s, depends on transducer
Map	11 types
Persistence	Off, Low, Med, High
Focus Position	Adjustable, depends on transducer
Focus Number	1-3, adjustable
Colorize	On, off
Tint	5 Types
Up/Down Flip	

Left/Right Flip	
Spatial Compounding	On, off (max 3 angles)
Panorama	On, Off (Max. length 1.2m) Real-time speed indicator 360° rotation of Panoramic image
Acoustic Power	10%-100%
Quick Rotation	0° ,90° ,180° ,270°
TSI	General,Fat,MSK,Fluid

B- mode(Post-processing & retrospective)

- Gain
- DR
- TGC
- LGC
- Zoom
- eSRI
- Colorize
- Map
- Quick Rotation

M- mode(Live imaging)

Sweep Speed	Fast/High/Med/Low/ Slow (Corresponds to sweep time of 1s, 2s, 4s, 8s and 12s per screen respectively.)
Line Persist	Off, Low, Med, High
Map	11 types
Colorize	On, off
Tint	5 Types
Gain	0-100dB
Frequency	1-17MHz Max 5 Fundamental &5 Harmonic(Probe dependent)
Dynamic Range	40-96 dB, 2dB/step
Strip size	Full, large, Med., small

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Side-by-side	On(Left/Right) Off(Up/Down)
Acoustic Power	10%-100%
Anatomic M	On, Off Up to 3 linear sample lines Adjustable angle of each sample line
Curved AMM	On, Off Free-hand drawing of sample line; Sample line supports edition, deletion and revocation.

M-mode(Post-processing & retrospective)

- Gain
- DR
- TGC
- Colorize
- Map
- Strip size
- Side-by-side

Color/PDI/DPDI Mode(Live imaging)

Image Type	HighFlow/MidFlow/LowFlow
Dual Live	B+C(PDI/DPDI)
ROI size/position	Adjustable
Frequency	5 levels(Probe dependent)
Dynamic Range	10-70 dB, 5dB/step (not available in Color mode)
Gain	0-100dB, 1dB/step
Line density	Low, Med, High
Max. Frame Rate	235f/s, depends on transducer
Persistence	Off, Low, Med, High
Smooth	Off, Low, Med, High
Wall Filter	Low, Med, High
Color Map	10 types
Steer Angle	0°,±5°,±10°,±15°,±20°,±30° (linear transducers)

PRF	0.1-20.9KHz (L12-5HQ, Vasc Acc)
Scale	2.8-210 cm/s
Baseline	31 levels (Not available for PDI mode)
Threshold	0-100
Invert	On, off (Not available for PDI mode)
Color Hide	On,Off
Vel Distribution	On, Off
One-key Optimization	Gain, Scale
Acoustic Power	10%-100%
Panorama	On, Off (Max. length 1.2m) Real-time speed indicator 360° rotation of Panoramic image

Color/PDI/DPDI Mode

(Post-Processing & Retrospective)

- Zoom
- Baseline
- Color map
- Invert
- Color Hide
- VelDistr

PW mode(Live imaging)

Image Type	HighFlow/MidFlow/LowFlow
HPRF	Automatic invocation to maintain gate location/scale
Auto Trace	User selectable trace side
Auto Trace Side	Up, down, both
Duplex	
Triplex	
Frequency	2 levels
PRF	0.3-27.4KHz(L12-5HQ, Vasc Acc)

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Gain	0-100dB, 1dB/step
Dynamic Range	10-70 dB, 5dB/step
Wall Filter	Low, Med, High
Sweep Speed	Fast/High/Med/Low/ Slow (Corresponds to sweep time of 2s, 4s, 6s, 8s and 12s per screen respectively.)
Baseline	9 levels
Angle Correction	-80° to 80°
Quick Angle	-60°/0°/60°
Steer Angle	0°,±5°,±10°,±15°,±20°,±30° (linear transducers)
Invert	On, Off
Volume	0-99
Map	11 types
Colorize	On, off
Tint	5 Types
Gate Size	0.5-20 mm
Strip size	Full, large, Med., small
One-key Optimization	Gain, DR or Scale/Baseline, user configurable
Acoustic Power	10%-100%

PW Mode (Post-Processing & Retrospective)

- Gain
- DR
- Colorize
- Map
- Baseline
- Angle
- Invert
- Strip size
- Auto trace
- Trace side
- Quick Angle

CW mode(Live imaging)

Image Type	HighFlow/MidFlow/LowFlow
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PRF	0.2-6105cm/s(P7-3Q,need to adjust the Angle)
Gain	0-100dB,1dB/step
Dynamic Range	10-70 dB, 5dB/step
Wall Filter	Low, Med, High
Sweep Speed	Fast/High/Med/Low/ Slow (Corresponds to sweep time of 2s, 4s, 6s, 8s and 12s per screen respectively.)
Baseline	9 levels
Angle Correction	-80° to 80°
Quick Angle	-60°/0°/60°
Invert	On, Off
Volume	0-99
Map	11 types
Colorize	On, off
Tint	5 Types
Strip size	Full, large, Med., small
Acoustic Power	10%-100%

CW Mode (Post-Processing & Retrospective)

- Gain
- DR
- Colorize
- Map
- Baseline
- Angle Correct
- Invert
- Strip size
- Quick Angle

TVI(Color-TDI) Mode(Live imaging)

Image Type	HighFlow/MidFlow/LowFlow
Dual Live	B+Color-TDI(TVI)
ROI size/position	Adjustable
Frequency	2 levels
Gain	0-100dB, 1dB/step
Line density	Low, Med, High

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Max. Frame Rate	120f/s, Probe dependent
Persistence	Off, Low, Med, High
Smooth	Off, Low, Med, High
Wall Filter	Low, Med, High
Color Map	10 types
PRF	0.6- 8.0kHz
Scale	10.0-130 cm/s
Baseline	31 levels (Not available for PDI mode)
Threshold	0-100
Invert	On, off (Not available for PDI mode)
Color Hide	On,Off
Vel Distribution	On, Off
Acoustic Power	10%-100%

TVI(Color-TDI) Mode

(Post-Processing & Retrospective)

- Zoom
- Baseline
- Color map
- Invert
- Gain
- Color Hide

TVD(PW-TDI) mode(Live imaging)

Image Type	HighFlow/MidFlow/LowFlow
Duplex	On, Off
PRF	0.9- 14kHz
Frequency	2 levels
Gain	0-100dB, 1dB/step
Dynamic Range	10-70 dB, 5dB/step
Wall Filter	Low, Med, High
Sweep Speed	Fast/High/Med/Low/ Slow (Corresponds to sweep time of 2s, 4s, 6s, 8s and 12s per screen respectively.)
Baseline	8 levels

Angle Correction	-80° to 80°
Quick Angle	-60°/0°/60°
Invert	On, Off
Volume	0-99
Map	11 types
Colorize	On, off
Tint	5 Types
Gate Size	0.5-20 mm
Strip size	Full, large, Med., small
Acoustic Power	10%-100%
Auto Trace	
Trace Side	Up, down, both

TVD(PW-TDI)(Post-Processing & Retrospective)

- Gain
- DR
- Colorize
- Map
- Baseline
- Angle
- Invert
- Quick Angle
- Auto trace
- Trace side
- Gate Size

3D/4Dmode(Live imaging)

Acquisition modes	3D, 4D
Visualization modes	Volume rendering, MPRs, Multi-Slice
Multi-Slice	Max. 21 slices can be displayed on the same screen; Distance between each slice is 0.5-10.0mm
VOI size/Position	Adjustable
Inversion	On, off
3D clip	

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Cut tools	Trace, Box, Eraser
Cut functions	Undo, Undo all, Redo
Display formats	Single 3D, Dual(A-plane + 3D), Quad(A/B/C Planes + 3D)
3D parameters	Threshold, Smooth, Brightness, Contrast, Tint
eFace	EDAN auto show face
4D frame rate	Max. 15vps
eLive	Light rendering mode
Light Pos	10 levels
Surface1/ Surface2	Helpful for surface imaging, for example, fetus face, hand or foot.
Max	Displays the maximum intensity of gray values in the VOI.
Min	Displays the minimum intensity of gray values in the VOI.
X-ray	Displays the average value of all gray values.
Depth1/Depth2	Equals to surface rendering mode/skeleton rendering mode.
VOI	
Reset	Reset the operation of pan, rotate and zoom to the initial condition.
Guass Sm.	5 levels
Gamma	5 levels

Elastography mode (Live imaging)

Opacity	1, 2, 3, 4 levels
Smooth	Off, Low, Med., High
Persistence	Off, Low, Med, High
Map	0-6
DR	0-6
Invert	On, Off

Display formats	E, B+E(Up/down; left/right)
Elastography Mode (Post-Processing & Retrospective)	
- Opacity	
- Map	
- DR	
- Invert	
Contrast Imaging	
Timer(Double)	
Display formats	C, T+C, C+T
Destroy	Destroy power, Destroy time
Frequency	2 levels
Acoustic Power	10%-100%
eSRI	0,1,2,3,4,5,6,7
Persistence	Off, Low, Med, High
Dynamic Range	40-96
Tint	5 types
Map	11 types
Cine Speed	10%-300%
TIC Analysis	Ellipse and trace tool supported for adding Up to 7 ROIs.
	Independent TIC Analysis window displayed below the contrast image;
	TIC parameters supported:
	1. PI(Peak Intensity)
	2. AT(Arrival time)
	3. TTP(Time to Peak)
	Fit curving

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Review and Post-Processing functions

Cine Review

- Frame by frame manual review/Auto review
- Auto playback with 8-level speed adjustable
- Start frame and end frame are selectable for cine loop review.
- Independent cine review in Dual/Quad mode.
- Maximum cine memory in the cine bar(depending on transducers and image parameters):
 - 41000 frames for B mode
 - 8000 frames for Color mode
 - 60s for M mode
 - 1000s for PW/CW Doppler mode

RawData Post-Processing Features

The following Post-Processing features are available when in image/cine review of current exam or the stored exam.

- Adjusting imaging parameters
- Measurements
- Annotations: Body Mark, Comments
- Reports
- Storing static image/ cine loop

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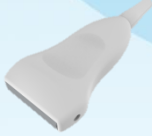







Transducers and Biopsy Guide

Transducer Applications

Transducer		Applications	Transducer		Applications
C5-1Q		Abdomen Fetal / Obstetrics Urology Gynecology Musculoskeletal	C5-2Q		Abdomen Fetal / Obstetrics Urology Gynecology Musculoskeletal
L17-7HQ		Small Parts Peripheral Vascular Musculoskeletal	L12-5Q		Small parts Peripheral Vascular Musculoskeletal
MC8-4Q		Pediatric Abdomen Neonatal Musculoskeletal Peripheral Vascular	L17-7SQ		Intra-operative Musculoskeletal Peripheral Vascular
P7-3Q (high-performance)		Adult Cardiac Pediatric Abdomen	MC9-3TQ		Pediatric Abdomen Neonatal Musculoskeletal Peripheral Vascular
P7-3Q (low-cost)		Pediatric Cardiac Neonatal cephalic			
C6-2MQ		Fetal / Obstetrics Abdomen Gynecology Urology	P5-1Q		Adult Cardiac Abdomen Pediatric Cardiac Adult Cephalic
E10-3BQ		Fetal / Obstetrics Gynecology Trans-vaginal Trans-rectal Urology	P5-1XQ		Adult Cardiac Abdominal Pediatric Cardiac Adult Cephalic

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E10-3HQ		Fetal / Obstetrics Gynecology Trans-vaginal Trans-rectal Urology	L12-5HQ (high-performance)		Peripheral Vascular Musculoskeletal Small Parts
			L12-5HQ		
L12-5WQ (high-performance)		Peripheral Vascular Musculoskeletal Small Parts	ECL12-3Q		Urology Gynecology
L12-5WQ					
E10-3MQ		Abdominal Gynecology Urology	P7-3MQ		Adult Cardiac
SC6-1Q		Abdominal Fetal / Obstetrics Urology Gynecology Musculoskeletal			

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Transducer Specifications

Transducer	C5-1Q	C5-2Q	L12-5Q
Transducer Type	Convex	Convex	Linear
Bandwidth@ -6dB	2-5MHz	2-5MHz	5-11MHz
Elements	160	128	128
Footprint	NA	NA	38mm
Convex Radius	50mm	60mm	NA
FOV	64°	60°	NA
Display Depth	45cm	45cm	11cm
Max. PW Velocity($\pm 60^\circ$)	9m/s	9m/s	4.75m/s
Max. CW Velocity($\pm 60^\circ$)	NA	NA	NA
Biopsy Guide	Yes	Yes	Yes
Cable Length	2.0m	2.0m	2.0m

Transducer	L17-7HQ	L17-7SQ	MC8-4Q	MC9-3TQ
Transducer Type	Linear	Linear	Micro Convex	Micro Convex
Bandwidth@ -6dB	7-15MHz	7-15MHz	4-9MHz	3-9MHz
Elements	192	128	128	128
Footprint	38mm	26mm	NA	NA
Convex Radius	NA	NA	15mm	10mm
FOV	NA	NA	100°	150°
Display Depth	11cm	11cm	15cm	15cm
Max. PW Velocity($\pm 60^\circ$)	3.25m/s	3.25m/s	5m/s	6m/s
Max. CW Velocity($\pm 60^\circ$)	NA	NA	NA	NA
Biopsy Guide	Yes	No	Yes	Yes
Cable Length	2.0m	2.0m	2.0m	2.0m

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Transducer	P5-1Q	P7-3Q	C6-2MQ	E10-3MQ
Transducer Type	Phased	Phased	Wobbler	Intra-cavity
Bandwidth@ -6dB	1-5MHz	3-7MHz	2-5MHz	4-9MHz
Elements	64	96	128	192
Footprint	16 mm	15 mm	NA	NA
Convex Radius	NA	NA	40mm	10mm
FOV	90°	90°	67°	150°
Display Depth	30cm	18cm	30cm	14cm
Max. PW Velocity($\pm 60^\circ$)	10m/s	8m/s	8m/s	8m/s
Max. CW Velocity($\pm 60^\circ$)	64 m/s	45 m/s	NA	NA
Biopsy Guide	Yes	No	No	No
Cable Length	2.0m	2.0m	2.0m	2.0m

Transducer	E8-4Q	E10-3BQ	E10-3HQ	P5-1XQ
Transducer Type	Intra-cavity	Intra-cavity	Intra-cavity	Phased
Bandwidth@ -6dB	4-8MHz	4-9MHz	4-9MHz	1-5MHz
Elements	128	192	192	80
Footprint	NA	NA	NA	20mm
Convex Radius	10mm	10mm	10mm	NA
FOV	150°	200°	200°	90°
Display Depth	14cm	14cm	14cm	30cm
Max. PW Velocity($\pm 60^\circ$)	6m/s	8m/s	8m/s	7 m/s
Max. CW Velocity($\pm 60^\circ$)	NA	NA	NA	64m/s
Biopsy Guide	Yes	Yes	Yes	Yes
Cable Length	2.0m	2.0m	2.0m	2.0m

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Transducer	L12-5HQ	L12-5WQ	ECL12-3Q	
Transducer Type	Linear	Linear	Convex (R10)	Linear
Bandwidth@ -6dB	5-11 MHz	5-11 MHz	4-8 MHz	5-11 MHz
Elements	192	256	192	192
Footprint	38mm	51mm	NA	58mm
Convex Radius	NA	NA	10mm	NA
FOV	NA	NA	200°	NA
Display Depth	11cm	11cm	14cm	11cm
Max. PW Velocity(±60°)	3m/s	3m/s	4m/s	3m/s
Max. CW Velocity(±60°)	NA	NA	NA	NA
Biopsy Guide	Yes	Yes	Yes	
Cable Length	2.0m	2.0m	2.0m	

Transducer	SC6-1Q	P7-3MQ
Transducer Type	Convex	TEE
Bandwidth@ -6dB	2-5MHz	3-7MHz
Elements	160	64
Footprint	NA	10mm
Convex Radius	45mm	NA
FOV	67°	90°
Display Depth	45cm	18cm
Max. PW Velocity(±60°)	9m/s	5m/s
Max. CW Velocity(±60°)	NA	68m/s
Biopsy Guide	No	No
Cable Length	2.0m	1.5m
Insertion Length	/	1.0m

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Biopsy Guide

- **Needle Guide**

- Supports guide lines of multiple angles.
- Supports single and parallel guide line
- Supports guide line calibration.

- **Need Visualization**

- Supports three needle inserted angles for linear transducers

- **Center Line**

- Center Line is a vertical dotted line displayed at the middle of the image field, representing the middle of ultrasound beam. It helps to locate the position and depth of a target disease focus for out-of-plane biopsy, lithotripsy and etc.

- **Supported Needle Guided Brackets**

Model	Type	Angle/Depth	Description
BGK-002	In-plane	38°, 46°, 58°	For use with the L12-5Q/L17-7HQ, Supports: 14G-23G
BGK-003	Out-of-plane	1.0cm, 1.5cm, 2.0cm	For use with the L12-5Q/L17-7HQ, Supports: 21G
BGK-004	In-plane	12°, 20°	For use with the MC9-3TQ, Supports: 14G-23G
BGK-005	In-plane	0°	For use with the E10-3BQ, Supports: 16G, 18G
BGK-006	In-plane	1°	For use with the E10-3HQ, Supports: 16G, 18G
BGK-007	In-plane	18°, 25°, 35°	For use with the C5-2Q, Supports: 14G-23G
BGK-008	In-plane	12°, 22°	For use with the P5-1Q Supports: 14G-23G
BGK-009	In-plane	14°, 20°, 32°	For use with the C5-1Q Supports: 14G-23G
BGK-010	In-plane	44°, 53°, 64°	For use with the L12-5WQ(02.22.002983) Supports: 14G-23G
BGK-012	In-plane	11°, 20°, 37°	For use with the MC8-4Q

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Supports:14G-23G			
BGK-013	In-plane	0.5cm, 1.0cm, 1.5cm, 2.0cm, 2.5cm, 3.0cm, 3.5cm, 4.0cm, 4.5cm, 5.0cm	For use with the ECL12-3Q Supports:18G
BGK-P5-1X	In-plane	15°, 25°	For use with the P5-1XQ Supports:11G-23G
JSM-301	In-plane	37°, 46°, 58°	For use with the L12-5HQ Supports:11G-23G
BGK-021	In-plane	36°, 48°, 60°	For use with the L12-5HQ Supports:11G-23G
BGK-022	Out-of-plane	1.0cm, 1.5cm, 2.0cm	For use with the L12-5HQ Supports:21G
BGK-023	In-plane	45°, 55°, 65°	For use with the L12-5WQ (02.22.003416), Supports:11-23G

NOTE: JSM-301 is supported for use with L12-5HQ but not available for sale.

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Measurements

- Default measurement unit options
 - Distance: mm, or cm
 - Area: mm², or cm²
 - Volume: mm³, or cm³
- Caliper Size: switch automatically according to the distance (3 sizes)
- Dynamic display of measurement results
- Reposition caliper
- Pre-categorized measurement groups based on clinical applications; Configurable in Measure Preset. Measured results of each measurement is configurable in Measure Preset.
- Measurements displayed on main screen and touch screen are consistent.

General Measurements

B-mode

- Distance(2-point, trace)
- Circumference/Area (Ellipse, Trace, Spline)
- Angle(3-point, 2 lines)
- Volume(3-distance, Ellipse+ 1 distance)
- %Dist Stenosis(Distance)
- % Area Stenosis (Ellipse, Trace, Spline)

M-mode

- Distance
- Time
- Slope
- HR

Doppler mode

- PS
- ED
- RI
- PI
- PS,ED,RI,S/D

- Time
- HR
- Manual Trace
- Spline Trace
- Auto Trace(measured results is configurable)
- Velocity
- PGMax
- PGMean
- Volume Flow
- TEI index: COT, ET

Elastography mode

- Eratio(Ellipse, Trace)

Application Measurements/calculations

Abdomen

B-mode:

- Liver
 - Length, Width, Height
 - Volume(calculation)
 - Portal Vein Diameter
 - Common Hepatic Duct
- Gallbladder
 - Length, Height
 - Gallbladder Wall Thickness
 - Common Bile Duct
- Pancreas
 - Head, Body, Tail, Duct
- Spleen
 - Length, Height
- Renal
 - Length, Width, Height
 - Volume(calculation)
 - Renal Cortex Thickness
- Aorta Diameter

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PW mode:

- Abdominal Aorta
- Superior Mesenteric Artery
- Inferior Mesenteric Artery
- Hepatic Artery
- Splenic Artery
- Renal Artery
- Portal Vein
- Inferior Vena Cava
- Main Portal Vein
- Hepatic Vein
- Middle Hepatic Vein
- Splenic Vein
- Superior Mesenteric Vein
- Inferior Mesenteric Vein
- Time
- HR

Gynecology**B-mode:**

- Uterus
 - Length, Width, Height
 - Endometrium Thickness
 - UT Cavity
 - UT-L/CX-L(calculation)
- Cervix
 - Length, Width, Height
 - UT-L/CX-L(calculation)
- Ovary
 - Length, Width, Height
- Follicle
- Cyst
- Fluid POD
- Fibroid
- Mass

- Pelvic Floor
 - BSD(R)
 - BSD(S)
 - RVA(R)
 - RVA(S)
 - UTA(R)
 - UTA(S)
 - URA
 - DWT
 - Residual urine
 - BWD
 - UD
 - RAD
 - Rectocele Depth
 - Anal rectum Angle
 - LH Area
 - LH AP Diam
 - LH Lateral Diam
 - LUG

PW mode:

- Uterine Artery
- Ovary Artery
- Time
- HR

Obstetrics**B-mode:**

• Fetal Biometry	BPD, HC, AC, FL, HUM, CER, OFD, NF, TAD, APAD, THD, APTD, TTD, FTA,
• Early Gest	CRL, BPD, FL, HUM, NT, GS, YS, AF
• Long Bones	HUM, ULNA, RAD, TIB, FIB, Foot
• Fetal Cranium	CER, NT, NF, CM, LVW, NB
• AFI	Q1, Q2, Q3, Q4

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• Chamber	LV Diam, LA Diam, RV Diam, RA Diam
• LVOT/AO	LVOT Diam, Ao Asc, Ao Arch, Ao Isthmus, Desc Ao
• RVOT/PA	RVOT Diam, MPA Diam, Ductus A
• CTAR	

PW mode:

- MCA
- Umb. A
- Placenta A
- Ovary A
- Ut. A
- Fetal Ao
- Desc Aorta
- Ductus V
- FHR
- MV
- TV
- MPV
- Ductus A
- Time

M-mode:

- FHR

Cardiac

B-mode:

• LV Simpson	A4C Dias., A4C Sys., A2C Dias., A2C Sys.
• A/L(LV)	LVd, LVs
• Simp(LA)	LA A4Cs, LA A2Cs
• Simp(RA)	RA A4Cs
• LVM(A/L)	LVAAd Sax Epi, LVAAd Sax Endo, LVAAd Apical
• LV/RV	RVAWd, RVIDd, LVIDd, LVIDs

• LV Study	IVSTd, LVIDd, LVPWd, IVSTs, LVIDs, LVPWs
• AO	AoD, AoAsc, Desc Ao Diam
• Dimension s	RVOT Diam, LVOT Diam, MV Diam, MVA, MPA Diam, PV Diam, TV Diam, IVC Diam, RVDs, AVA
• PE	PE to Sept Wall, PE to Lat Wall, PE to Ant Wall, PE to Inf Wall, PE to RV, PE to RA
• LVM(T-E)	LVAAd Sax EPI, LVAAd Sax Endo, a, d
• LVM(Cube)	IVSTd, LVIDs, LVPWd
• LA/RA	RA length, RA Width, LA length, LA width, LA Dimen
• LA/Ao	LA, AoD

Color mode:

• PISA	MR Rad, MR Als. Vel, AR Rad, AR Als. Vel, TR Rad, TR Als. Vel, PR Rad, PR Als. Vel
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PW mode:

• Mitral Valve	MV E Vel, MV A Vel, MV PHT, MV VTI, IVRT, MV E Dur, MV A Dur, MV DecT, MR Vmax, MR VTI, dp/dt
• MVA(VTI)	LVOT VTI, MV VTI, LVOT Diam(unavailable in PW)
• LV TEI	MV C-O Dur, LVET
• Tricuspid Valve	TV E Vel, TV A Vel, TV VTI, TV Vmax
• RV TEI	TV C-O Dur, RVET
• RVSP	TR Vmax, RA Pressure
• Aortic Valve	LVOT VTI, LVOT Vmax, LVOT Accel Time, AV VTI, AV Vmax, AV Accel Time, AV Decel Time,

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	AR VTI, AR Vmax, AR Accel Time, AR PHT, AR Decel Time
• AVA(VTI)	LVOT VTI, AV VTI, LVOT Diam(unavailable in PW)
• AVA(Vmax)	LVOT Vmax, AV Vmax, LVOT Diam(unavailable in PW)
• CO(LVOT)	LVOT VTI, HR-AV, LVOT Diam(unavailable in PW)
• Pulmonic Valve	PV VTI, PV Vmax, PV Accel Time, PR Vmax
• PVA(VTI)	RVOT VTI, PV VTI, RVOT Diam(unavailable in PW)
• PVA(Vmax)	RVOT Vmax, PV Vmax, RVOT Diam(unavailable in PW)
• CO(RVOT)	RVOT VTI, HR-PV, RVOT Diam(unavailable in PW)
• Pulmonic Vein	Pulm S Vel, Pulm D Vel, Pulm A Vel, Pulm A Dur, Hep S Vel, Hep D Vel, Hep. A Vel, Hep A Dur
• PISA	MR Trace, AR Trace, TR trace, PR Trace
• TDI	Sa Medial, Ea Medial, Aa Medial, Sa Lateral, Ea Lateral, Aa Lateral
• QP/Qs	LVOT Diam, LVOT VTI, RVOT Diam, RVOT VTI
M- mode:	
• LV/RV	RVAWd, RVIDd, LVIDd, LVIDs
• LV Study	IVSTd, LVIDd, LVPWd, IVSTs, LVIDs, LVPWs
• HR	
• Time	LVET, LV PEP, RV PEP
• AV	AV Cusp Sep
• Mitral Valve	MV D-E Exc, MV D-E Slope, E-F

	Slope, EPSS, MV E-E Sep, MV A-C Interval, MAPSE
• TV	TAPSE
• LA/Ao	LA, AoR Diam, RVOT Diam, ACS
• LVM(Cube)	IVSTd, LVIDs, LVPWd
• IVC-CI	

Small Parts

B-mode:

- Thyroid
 - Length, Width, Height
 - Thyroid Isthmus
- Breast
 - Lesion1, Lesion2, Lesion3, Lesion4, Lesion5
- Testis
 - Length, Width, Height

PW mode:

- Superior Thyroid Artery
- Inferior Thyroid Artery
- Time
- HR

Urology

B-mode:

- Renal
 - Length, Width, Height
 - Renal Cortex Thickness
- Bladder
 - Pre-void Bladder (Length, Width, Height, volume)
 - Post-void Bladder (Length, Width, Height, volume)
- Prostate
 - Length, Width, Height
- Seminal

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- (Length, Width, Height)
- Testis
 - Length, Width, Height

PW mode:

- Renal Artery
- Arcuate Artery
- Segmental Artery
- Interlobar Artery
- Time
- HR

Vascular

	B-mode: Common Carotid Artery Intima-Media Thickness, Internal Carotid Artery Intima-Media Thickness, Carotid Artery Bifurcation Intima-Media Thickness , External Carotid Artery, Vertebral Artery, Subclavian Artery PW mode: Common Carotid Artery, External Carotid Artery, Internal Carotid Artery, Vert Artery, Subclavian Artery, HR, Time
• Carotid	
	B mode: Subclavian Artery, Axillary Artery, Brachial Artery, Ulnar Artery, Radial Artery, HR PW mode: Subclavian Artery, Axillary Artery, Brachial Artery, Ulnar Artery, Radial Artery, HR, Time
• Upper Extremity Artery	
	B mode: Subclavian Vein, AxillaryVein,
• Upper Extremity	

Vein	Brachial Vein, Cephalic Vein, Basilic Vein, Ulnar Vein, Radial Vein, Median Cubital Vein PW mode: Subclavian Vein, AxillaryVein, Brachial Vein, Cephalic Vein, Basilic Vein, Ulnar Vein, Radial Vein, Median Cubital Vein
	B mode: Common Femoral Artery, Deep Femoral Artery, Superficial Femoral Artery, Common Iliac Artery, External Iliac Artery, Internal Iliac Artery, Popliteal Artery, Peroneal Artery, Posterior Tibial Artery, Anterior Tibial Artery, Dorsalis Pedis Artery, HR PW mode: Common Femoral Artery, Deep Femoral Artery, Superficial Femoral Artery, Common Iliac Artery, External Iliac Artery, Internal Iliac Artery, Popliteal Artery, Peroneal Artery, Posterior Tibial Artery, Anterior Tibial Artery, Dorsalis Pedis Artery, HR, Time
• Lower Extremity Artery	
	B mode: Common Femoral Vein, Deep Femoral Vein, Superficial Femoral Vein, Common Iliac Vein, External Iliac Vein, Internal Iliac Vein, Great Saphenous Vein, Popliteal Vein, Peroneal Vein, Posterior Tibial Vein, Anterior Tibial Vein, Small Saphenous Vein
• Lower Extremity Vein	

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PW mode:

Common Femoral Vein, Deep Femoral Vein, Superficial Femoral Vein, Common Iliac Vein, External Iliac Vein, Internal Iliac Vein, Great Saphenous Vein, Popliteal Vein, Peroneal Vein, Posterior Tibial Vein, Anterior Tibial Vein, Small Saphenous Vein

Pediatrics

B-mode:

- Left lateral ventricle
- Right lateral ventricle
- left trigone
- right trigone
- Hip joint
 - HIP Angle
 - HIP d/D
 - Femoral Head-L
 - Femoral Head-W

Reports

- Editable worksheet
- Report type: ABD, GYN, OB, URO, VAS, SMP, CARD, PED
- Findings/Comments section
- Supports fetal growth curve and grow bar display; supports data display of max. 4 fetus
- User-imported Report Header
- User-defined hospital logo
- Multiple number of selected images, support select all images to add into the report in one key
- Support zoom in preview
- Support Export as PDF format to USB disk, or

sending to FTP server.

- Support print by report printer.
- Supports custom report information
- Support display the time of system's first use displayed in the report
- Support display BMI and BSA
- Supports clear all exam information in one key.

Image Storage& Exam Archiving

Image Storage

- Static image/Cine clip is stored in ultrasound system in Raw Data format.
- Static image/Cine clip stored can be reviewed for adjusting imaging parameters.
- Two dedicated hard keys on the console for capturing static image and cine clips respectively.
- Supports storage of up to 400,000 lossless single frames.
- Supports three ways to store cine clips with length configurable.
- Compression types of static image and clip: lossless, high, mid, low
- Supports one-key export of image/cine clip to USB disk
- Supports storing long clip through the user-defined key F1/F2, maximum length 30min.
- Supports cine clips export to USB disk.

Exam Database

Support exam storage without patient information

Support exam query

Support review current exam or prior exam

Support review images and report of an exam

Support export images as BMP, JPEG, TIF, DICOM

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or RawData format

Support export cine clip as AVI, WMV, DICOM or RawData format

Support import/export exams(including patient information, images, etc).

Support export exam in the background

Support image compare

Exam Archiving

All Clips and Static images stored on the system can be archived to other storage device for long-term storage as described below.

- Archived to DICOM server.
- Archived to USB device.
- Archived to FTP server
- Archived to DVD drives.

Connectivity

Network

- Wired network connection
- Wi-Fi connection

DICOM 3.0 Service

- DICOM Storage
 - Connectivity to PACS system for storage of all static image or cine clips with patient information.
 - DICOM store to multiple networks
 - Manual-Transfer in background on Demand
 - In-progress network storage in background
 - Auto-transfer in background at exam end
 - Transfer management UI for viewing transfer task status, retransferring a task or deleting a transfer task.
 - Transfer process encrypted.

- Supports Structured Report transferring: OB, GYN, Cardiac, Vascular, ABD and Breast.
- Supports setting the image compression ratio when exporting images
- Supports exports DICOM files to USB/DVD

- **DICOM Modality Worklist**

- Enables query of the patient worklist schedule from hospital information system to the ultrasound system via DICOM network connection.
- Query of worklist on demand or on start of exam.
- Populates the Patient Information screen with patient demographic information automatically when one patient is selected.
- Supports DICOM multiple-image printing

- **DICOM MPPS**

- The MPPS service enables the ultrasound system sending the exam status to Worklist server automatically when starting or ending an exam.

- **DICOM Print**

- Prints the images remotely via a DICOM printer which connects to a DICOM server.
- Multiple parameters for printing are configurable.
- Supports multi-image printing
- Supports color printing

- **DICOM Storage Commitment**

- Enables the function to confirm whether the DICOM transfer task to the DICOM server is successful.
- supports the establishment of a new association for receiving storage commitment information

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- DICOM Query/Retrieve
 - Supports entering key words for query prior exams from DICOM server.
 - Supports download a queried exam to local disk for reviewing.

- IHE Certification

FTP Network Store Service

- Supports to transfer exams to FTP servers for storage in the background.
- Transfer management UI for viewing transfer task status, retransferring a task or deleting a transfer task.
- A PDF report can be sent to FTP server together with the exam.

Scan Transfer

- Supports sending image/clips to mobile devices by Cloud Share and WLAN direct connection functions.

Supported Peripherals

Printers

- Video printers
 - SONY UP-X898MD
 - SONY UP-D25MD
 - SONY UP-25MD
 - Mitsubishi P95
- Local report printer
 - HP OfficeJet Pro 251dw
 - HP Laserjet CP1525n Color
 - HP Deskjet Ink Advantage 2010
 - HP Deskjet 1510 Color
 - HP Deskjet Pro M401d
 - HP DeskJet Ink Advantage Ultra 2029
 - HP Deskjet 1112
 - Canon iP2780
 - HP LaserJet Pro MFP M126nw
 - HP DeskJet 1050

- HP DeskJet 2050
- HP DeskJet M252n
- HP Color Laser 150a
- HP Color Laser 150nw
- HP Laser 103a

The printers listed above are the recommended printers which were verified. More compatible printers which were not verified can be got from EDAN Service.

- Network report printer

DVD Drives

- LITEON eBAU108

Barcode Reader

Mini PC

Safety and Regulatory

The Acclarix LX9 series Diagnostic Ultrasound System have been designed, manufactured and tested to comply with the following internationally recognized standards:

- IEC 60601-1: Medical Equipment Safety
- IEC 60601-1-2: Medical Device Electromagnetic Safety
- IEC 60601-2-37: Ultrasonic Medical Equipment Safety
- IEC 62304: Medical Device Software Life-cycle Process
- IEC 62366: Medical Device Usability Engineering
- EN ISO 14971: Medical Device Risk Management
- ISO 10993-1: Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management process sheet

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Device Classification:

- FDA Class II Device
- CE/MDD Class IIa Device

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Revision History

Version	Revisions	Date
1.0	Initial release.	2022-03-25
1.1	Update transducer related information. See the changes highlighted with blue color.	2022-06-13
1.2	Updated for V2.10 release. See the changes highlighted with blue color.	2022-07-25
1.3	Updated for V2.20 release. See the changes highlighted with blue color.	2023-01-05
1.4	Updated for V3.00 release. See the changes highlighted with blue color.	2023-04-16
1.5	Updated for supplementing system information.	2023-12-07

This datasheet applies to Acclarix LX9 series (2022) Diagnostic Ultrasound Systems, including Acclarix LX9, Acclarix LX9 Exp and Acclarix LX9 Super models. The configuration difference between each model is listed in the following table.

Models	Configuration Difference		
	Feature 1	Feature 2	Feature 3
	Seminal Vesicle Meas.	Testis Meas.	Single Button Footswitch
Acclarix LX9	X	√	√
Acclarix LX9 Exp	√	X	√
Acclarix LX9 Super	√	√	√

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