EDAN

Datasheet

Acclarix AX3 VET series
Veterianry Diagnostic Ultrasound System

Revision History

Version	Revisions	Date
1.0	Initial release	2019-7-3

This datasheet applies to Acclarix AX3 VET series Veterinary Diagnostic Ultrasound Systems, including Acclarix AX3 VET and Acclarix AX2 VET models. The configuration difference between each model is listed in the following table.

Models	Configuration Difference
	Socket Number
Acclarix AX3 VET	Double
Acclarix AX2 VET	Single

Product Description

The remarkable Acclarix AX3 VET series Compact Ultrasound System delivers a powerhouse combination of features to meet the demands of point-of-care and general imaging applications. The Acclarix AX3 VET series has been designed from the ground up with a relentless focus on delivering unexpected levels of innovation and performance at a price point that is equally surprising. Dual active transducer ports design enables switching transducer seamlessly at a finger tip. Dual batteries extend the imaging scanning. Extremely light body embodied with brand new EIS operating system empowers smooth system operation and fast system response.

Advanced Technique and Features

TAI-Tissue Adaptive Imaging

eSRI- Adaptive Speckle Reduction Imaging

Frequency Compounding Imaging

Adaptive Spatial Compounding Imaging

Harmonic Imaging

B mode Auto Optimization

Digital Multi-Beam forming

Trapezoid Imaging

Adaptive Doppler imaging

Spectrum Enhancement

B Steer

Digital Zoom

Auto Doppler trace

System Overview

System Architecture

Physical Channels	64
Beam Forming	Quad beam
Processor	ARM
Memory	2 GB
Hard Drive	120G SSD
Operating System	Android
System Boot-up	About 30s
Boot-up from sleep	5s
Shutdown	3s

Dimensions and Weight

Dimension	375 mm×380 mm×58 mm
Net Weight (No battery)	4.2kg (one transducer port) 4.35kg (two transducer ports)
Net weight (1 battery)	4.65kg (one transducer port) 4.79kg (two transducer ports)
Net weight (2 batteries)	5.24kg (two transducer ports)

Monitor

- 15.6'' high resolution LCD monitor
- Resolution: 1920 x 1080
- Image Size: 1040*780
- Open angle: 0°-180°
- Magnetic latch closure
- Built-in stereo speaker
- Brightness and Contrast adjustable

Transducer Ports

- Dual active transducer ports
- Single or Dual transducer ports configurable

Battery

- Rechargeable
- Max. two batteries configurable
- 5000mAh capacity for each battery
- Removable
- Approximately 1 hour of typical ultrasound exam use for one fully charged battery.
- Approximately 2 hours of typical ultrasound exam use for two fully charged batteries.
- Standby time: > 4 hours (two batteries)
- One battery fully charged in about 2.5 hours
- Two batteries fully charged in about 5 hours.
- Battery indicator on the console near the handle.
- Battery level icon displayed on the main screen.

AC Power Requirements

Voltage	100 -240 V~
Frequency	50 Hz/60 Hz

Environment Requirements

Operating Environment

Ambient temperature	0° to 40°C
Relative Humidity	15%~95% (no condensing)
Atmospheric pressure	86kPa-106kPa

Storage Environment

Ambient temperature	-20° to 55°C
Relative Humidity	15%~95% (no condensing)
Atmospheric pressure	70kPa-106kPa

Language Supported

- English
- Chinese

I/O Ports

- S-Video
- USB 3.0
- USB 2.0(two)
- HDMI
- Ethernet

Options

- Transducers
- Needle Guide Bracket Kits
- Printers
- Battery
- USB Disk
- WIFI
- Footswitch
  - Single button/Double buttons
  - User-defined Functions(Freeze, Save, Print)
- Simple Cart: MT-808
  - Height Variable
  - A drawer for glossary storage
  - A shelf for Video printer
  - 4 transducer holders and 2 gel holders with removable silicon cover
  - Cable manager
  - Drawer height and position adjustable
- Suitcase

System Ergonomic Design

Dual Transducer Ports

Dual active transducer ports design enables switching transducer seamlessly at a finger tip, and reduce the workload of disconnecting/connecting transducers during an exam.

Handle

Provides wrist support during imaging.

Magnesium alloy body

Extremely light weight realizes the true portability.

User Interface

Control Panel

- Interactive back-lighting
- Hard Keys provides tactile feedback
- User-defined keys

Touch Screen

- 10.1'' Touch screen
- Gesture-control
- Virtual TGC sliders
- Support QWERTY keyboard for text input
- Brightness adjustable

Main Screen Display

Information Field

- EDAN logo
- Hospital name
- Date
- Time
- Patient ID
- Patient Name
- Owner Name
- Patient Gender
- Patient Age

- Transducer model
- Exam Preset

Image Field

- Animal Species
- Mechanical Index (MI)
- Thermal Index (TI)
- Imaging parameters
- Gray Scale bar
- Depth Scale
- Center Mark
- Measured result window
- TGC curve

Mini Report

- Measurement and calculation results

Thumbnail Field

- All captured static images and cine clips
- Shortcut keys for selecting, viewing, deleting, exporting images.

User Feedback Field

- Virtual trackball and trackball keys
- Cine bar
- Exit icon for exiting RawData review status.

Status Bar

- Utility Icon(access to Utilities function)
- Image Store Icon
- USB Icon
- Printer Icon
- WIFI Icon
- Network Transfer Status Icon
- Hard Drive Icon
- Battery Icon

Exam Presets

- System pre-defined exam presets include(Transducer specific) :
    - Large Canine
    - Medium Canine
    - Small Canine
    - Large Feline
    - Small Feline
    - Bovine
    - Ovine
    - Equine
    - Others
    - Canine Obstetrics
    - Feline Obstetrics
    - Bovine Obstetrics
    - Equine Obstetrics
    - Other Obstetrics
    - Equine Reproduction
    - Small Cardiac
    - Large Cardiac
    - Small Parts
    - Vascular
    - Superficial
    - MSK
    - Equine MSK
    - Equine Frog
    - Equine Pastern
    - Equine Tendon Ligament
    - Equine Joint
- User customizable presets: Copy, Delete, Save as and rename
- Exam presets are configurable in Set-up.
- Supports a second page, up to 30 presets per transducer.
- Each preset can share comment, body mark, and measure presets.

Annotations

Comments

- User-programmable home position
- Arrow with user controlled orientation
- QWERTY keyboard
- Block move and delete for separate blocks of text
- Smart text replacement for predefined text (e.g., Long replaces Trans with one keystroke)
- 185 pre-defined comments
- User customizable

Body Mark

- Up to 45 Body Mark graphics in library

Imaging

Imaging Modes

B-mode

M-mode

Color Doppler

PDI/DPDI

PW Doppler

CW Doppler

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

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+PW (Duplex)
- B+PW (Update)
- B/C(PDI or DPDI)+PW (Triplex)
- B/C(PDI or DPDI)+PW (Update)
- B+CW (Update)
- B/C(PDI or DPDI)+CW (Update)

Imaging Parameters

B- mode(Live imaging)

Image Type	Detail/General/Penetration
Auto	TGC, Gain
Digital Zoom	x0.8-x2.0
Display Depth	1-45cm
Frequency	1-17MHz
	3 fundamental + 2 harmonic
eSRI	Off, Low, Med, High
FOV	Small, Med, Large, Full
Steer	0°, ±10°
Gain	0-100dB
TCG	8 segments
Dynamic Range	40-96dB
Line Density	Low, Med, High
Max. Frame Rate	551f/s, depends on transducer
Map	11 Types
Persistence	Off, Low, Med, High
Focus Position	Max. 16 positions, adjustable
Focus Number	1-3, adjustable
Colorize	On, off
Tint	5 Types
Up/Down Flip	
Left/Right Flip	
Spatial Compounding	On, off (max 3angles)
Trapezoid	On, off
Acoustic Power	10%-100%

B- mode(Post-processing & retrospective)

- Gain
- TGC
- Zoom
- Dynamic range
- eSRI
- Colorize
- Map
- Up/Down Flip
- Left/Right Flip

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 3 fundamental + 2 harmonic
Dynamic Range	40-96 dB
Strip size	Full, large, Med., small
Side-by-side	On(Left/Right) Off(Up/Down)
Acoustic Power	10%-100%

M- mode(Post-processing & retrospective)

- Gain
- TGC
- Dynamic range
- Colorize
- Map
- Stripe Size
- Side-by-side

Color/PDI/DPDI Mode(Live imaging)

Image Type	HighFlow/MidFlow/LowFlow
Dual Live	
ROI size/position	Adjustable
Frequency	2 levels
Gain	0-100dB
Line Density	Low, Med, High
Dynamic Range	10-70 dB Not available for Color mode
Max. Frame Rate	257f/s, depends on transducer
Persistence	Off, Low, Med, High
Smooth	Off, Low, Med, High
Wall Filter	Low, Med, High

Color Map	8 Types
Steer Angle	0°,±10°, ±20° (L12-5Q) 0°, ±15°, ±30°(L12-5Q, small canine, large feline, small feline, feline OB, SMP, others) 0°,±5°,±10° (L17-7Q)
PRF	0.6- 11.4kHz
Baseline	25 levels (Not available for PDI mode)
Threshold	0-100
Invert	On, off (Not available for PDI mode)
Acoustic Power	10%-100%

Color/PDI/DPDI Mode (Post-Processing & Retrospective)

- Zoom
- Color map
- Invert (Not available for PDI mode)
- Baseline

PW mode(Live imaging)

Image Type	HighFlow/MidFlow/LowFlow
HPRF	Automatic invocation to maintain gate location/scale
Auto Trace	
Trace Side	Up, down, both
Duplex	
Triplex	
Frequency	2 levels
PRF	0.9- 14.7kHz
Gain	0-100dB
Dynamic Range	10-70 dB
Wall Filter	Low, Med, High
Sweep Speed	Fast/High/Med/Low/ Slow Corresponds to sweep time of 2s, 3s, 4s, 6s and 8s per screen respectively.
Baseline	9 levels

Angle Correction	-80° to 80°
Quick Angle	-60°/0°/60°
Steer	0°,±10°, ±20° (L12-5Q)
	0°, ±15°, ±30°(L12-5Q, small canine, large feline, small feline, feline OB, SMP, others)
	0°,±5°,±10° (L17-7Q)
Invert	
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%

PW Mode (Post-Processing & Retrospective)

- Gain
- Dynamic Range
- Colorize
- Map
- Baseline
- Angle Correct
- Invert
- Strip size
- Auto trace
- Trace side

CW mode(Live imaging)

Image Type	HighFlow/MidFlow/LowFlow
PRF	1- 100kHz
Gain	0-100dB
Dynamic Range	10-70 dB
Wall Filter	Low, Med, High
Sweep Speed	Fast/High/Med/Low/ Slow Corresponds to sweep time of 2s, 3s, 4s, 6s and 8s per screen respectively.
Baseline	9 levels
Angle Correction	-80° to 80°
Quick Angle	-60°/0°/60°
Invert	
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
- Dynamic Range
- Colorize
- Map
- Baseline
- Angle Correct
- Invert
- Strip size

Review and Post-Processing functions

Cine Review

- Frame by frame manual review
- Auto playback with 6-level speed adjustable
- Start frame and end frame are selectable for cine loop review
- Independent cine review in Dual mode.
- Maximum cine memory depends on transducers and image parameters:
    - 200000 frames for B mode
    - 35000 frames for Color mode
    - 180s for M mode
    - 240s for PW/CW Doppler mode

Post-Processing Features

All the image/cine are stored in Raw Data format in local disk. The following Post-Processing features are available when in image/cine review of current exam or the stored exam.

- Adjusting imaging parameters
- Storing static image/ cine loop

Transducers and Biopsy Guide

Transducer Applications

Transducer		Applications	Transducer		Applications
C5-2Q		Large Canine, Bovine, Ovine, Equine, Canine OB, Bovine OB, Ovine OB, Equine OB, Other OB, Equine MSK, Equine Frog	L12-5Q		Small Canine, Large Feline, Small Feline, Feline OB, Small Parts, Vascular, Superficial, MSK, Equine Tendon Ligament, Equine Joint
L17-7Q		Small Parts, Vascular, Superficial, MSK, Equine Tendon Ligament, Equine Joint	P5-1Q		Small Cardiac, Large Cardiac
P7-3Q		Small Cardiac, Large Cardiac	MC8-4Q		Large Canine, Medium Canine, Small Canine, Large Feline, Small Feline, Canine OB, Feline OB, Bovine OB, Ovine OB, Equine OB, Other OB, Small Cardiac, Large Cardiac, Equine Pastern
MC9-3TQ		Large Canine, Medium Canine, Small Canine, Large Feline, Small Feline,	VEL12-5Q		Bovine OB, Ovine OB, Equine OB, Other OB, Equine

		Canine OB, Feline OB, Bovine OB, Ovine OB, Equine OB, Other OB, Small Cardiac, Large Cardiac, Equine Pastern			Reproduction, Equine MSK
VEL8-3WQ		Bovine OB, Ovine OB, Equine OB, Other OB, Equine Reproduction, Equine MSK			

Transducer Specifications

Transducer	C5-2Q	P5-1Q	L12-5Q	L17-7Q	P7-3Q
Transducer Type	Convex	Phased	Linear	Linear	Phased
Bandwidth@-20dB	1-7MHz	1-5MHz	3-13MHz	4-19MHz	2-8Mhz
Bandwidth@ -6dB	2-5MHz	1-5MHz	5-12MHz	7-17MHz	3-7MHz
Elements	128	64	128	128	96
Footprint	NA	16 mm	38mm	38mm	15 mm
Convex Radius	60mm	NA	NA	NA	NA
FOV	60°	90°	NA	NA	90°
Max. Display Depth	45cm	30cm	11cm	11cm	18cm
Max. PW Velocity (±60°)	9m/s	10m/s	4.7m/s	3.2m/s	10m/s
Max. CW Velocity (±60°)	NA	75m/s	NA	NA	75m/s
Biopsy Guide	Yes	Yes	Yes	Yes	No
Cable Length	2 m/4m	2 m	2 m	2 m	2 m

Transducer	MC8-4Q	MC9-3TQ	VEL8-3WQ	VEL12-5Q
Transducer Type	Mirco Convex	Mirco Convex	Linear	Linear
Bandwidth@-20dB	3-10MHz	2-11MHz	2-9MHz	3-13MHz
Bandwidth@ -6dB	4-8MHz	3-9MHz	3-8MHz	5-12MHz
Elements	128	128	128	128
Footprint	NA	NA	57mm	38mm
Convex Radius	15mm	10mm	NA	NA
FOV	NA	NA	NA	NA
Max. Display Depth	15cm	15cm	18cm	11cm
Max. PW Velocity (±60°)	5m/s	6m/s	7m/s	4.75m/s
Max. CW Velocity (±60°)	NA	NA	NA	NA
Biopsy Guide	Yes	Yes	No	No
Cable Length	2 m/4m	2 m	2 m	2 m/4m

Biopsy Guide

- **Needle Guide**
  - Supports guide lines of multiple angles.
  - Support guide line calibration .

- **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	Angle/Depth	Description
BGK-C5-2	20° , 28°, 40°	For use with the C5-2Q, Supports: 14G-23G
BGK-L40UB	34°, 43°, 53°, 66°	For use with the L17-7Q, Supports: 14G-23G
BGK-R15UB	12°, 20°, 35°	For use with the MC8-4Q, Supports: 14G-23G
BGK-001	1.0cm, 1.5cm, 2.0cm	For use with the L17-7Q, Supports: 21G
BGK-002	38° , 46°, 58°	For use with the L12-5Q, Supports: 14G-23G
BGK-003	1.0cm, 1.5cm, 2.0cm	For use with the L12-5Q, Supports: 21G
BGK-004	12° , 20°	For use with the MC9-3TQ, Supports: 14G-23G
BGK-008	12° , 22°	For use with the P5-1Q, Supports: 14G-23G

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

General Measurements

B-mode

- Distance
- Circumference/Area (Ellipse, Trace)
- Angle
- Volume
- Stenosis
  - %Dist Stenosis (Distance)
  - % Area Stenosis (Ellipse, Trace)

M-mode

- Caliper
  - Distance
  - Time
  - Slope
- HR

Doppler mode

Caliper	V1, V2, Acceleration, Time, RI, S/D, ΔV, PG1, PG2, PHT
Trace	PS, ED, MD, RI, PI, S/D, Time, TAMax, VTI, AT, DT, PGmax, PGmean
Auto Trace	PS, ED, MD, RI, PI, S/D, HR, Time, TAMax, TAMean, VTI, AT, DT, PGmax, PGmean
HR	HR
RI	PS, ED, RI, S/D

- TEI   (only available for Cardiac preset)
- dp/dt   (only available for Cardiac preset)

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

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

Reproduction

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
  - D1, D2, D3
  - Follicle-Mean
- Cyst
  - D1, D2, D3
- Fluid POD

PW mode:

- Uterine Artery
- Ovary Artery

Obstetrics

B-mode:

●	Canine	CRL, GSD, HD, BD, HD&BD
●	Feline	HD, BD
●	Bovine	CRL, TD, HD
●	Ovine	CRL, BPD
●	Equine	GSD-H, GSD-V
●	Fetal Echo	RV Diam, RA Diam, RVOT Diam, LV Diam, LA Diam, LVOT Diam, Ao Asc,

		Ao Arch Diam, Ao Isthmus, Desc Aorta, MPA Diam, Ductus A, CTAR.

PW mode:

●	Fetal Echo	FHR, MCA, Umb. Artery, Planenta Artery, Ductus Venosus, MV, TV, MPV, Ovary Artery, Uterine Artery, Fetal Aorta, Desc Aorta, Ductus A

Cardiac

B-mode

●	LV Simpson	A4C Dias., A4C Sys., A2C Dias., A2C Sys., SV, EF, CO, SI, CI
●	Vent. Dim	RVAWd, RVIDd,IVSTd, LVIDd, LVPWd, IVSTs, LVIDs, LVPWs (Calculations:SV, EF, FS, CO, SI, CI)
●	Ao Asc	
●	RVOT Diam	
●	LVOT Diam	
●	HR	
●	PV Diam	
●	RVDs	
●	RA	Length, Width
●	LA	Length, Width
●	AoD	

M-mode:

●	Vent. Dim	RVAWd, RVIDd, IVSTd, LVIDd, LVPWd, IVSTs, LVIDs, LVPWs
●	LVET	
●	MV	E-F Slope, EPSS
●	LA/AO	LA, AoD, RVOT Diam

PW mode:

●	MV	E/A, MV PHT, MV Trace, IVRT, MV A Dur, MV DecT
●	TV	TV trace, TV Max

	AoV	LVOT Trace, LVOT Vmax, AoV Trace, AoVVmax
•	PV	PV trace, PV Max
•	Pulmonic Vein	PVein S Vel, PVein D Vel, PV A Vel

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
  - (Length, Width, Height

- Testis
  - Length, Width, Height

PW mode:
- Renal Artery
- Arcuate Artery
- Segmental Artery
- Interlobar Artery

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

Vascular

		B-mode:
•	Carotid	Common Carotid Artery Intima-Media Thickness, Internal Carotid Artery Intima-Media Thickness, Carotid Artery Bifurcation Intima-Media Thickness **PW mode:** Common Carotid Artery, External Carotid Artery, Internal Carotid Artery, Vert Artery, Subclavian Artery, HR
•	Upper Extremity Artery	**PW mode:** Subclavian Artery, Axillary Artery, Brachial Artery, Ulnar Artery, Radial Artery, HR
•	Upper Extremity Vein	**PW mode:** Subclavian Vein, Axillary Vein, Brachial Vein, Cephalic Vein, Basilic Vein, Ulnar Vein, Radial Vein, Median Cubital Vein
•	Lower Extremity Artery	**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

	PW mode:
• Lower Extremity Vein	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
• Cephalic	**PW mode:** Anterior Cerebral Artery, Middle Cerebral Artery, Posterior Cerebral Artery, Anterior Communicating Artery, Posterior Communicating Artery, Basilar Artery, Vertebral Artery, Internal Carotid Artery
• Volume Flow	**B mode:** Volume Flow Area **PW mode**: TAMean, Volume Flow (Calcu.)

Reports

- Editable worksheet
- Comments section
- User-imported Report Header
- User-defined hospital logo
- Multiple number of selected images
- Multiple layouts of image in report.
- Report Layout supports auto adjust.
- Support zoom in preview
- Support Export as PDF format
- Support print by report printer.

Image Storage & Exam Archiving

Image Storage

- Static image/Cine clip is stored in local disk in RawData format.
- Two dedicated hard keys on the console for capturing static image and cine clips respectively.
- Cine clips supports prospective and retrospective storing.
- The length of cine clip is configurable.
- Prospective storing: max. 2 min length of clip can be stored in real-time scanning.
- Retrospective storing: all the clip data in the cine buffer can be stored in cine review mode, max.6 min.
- Supports up to 30,000 lossless single frames
- Supports cine clips of :
    - Up to 200000 frames for B mode
    - Up to 35000 frames for Color mode
    - Up to 180s for M
    - Up to 240s for PW/CW mode

Exam Database

Support exam storage without patient information

Support exam query

Support review current exam or prior exam

Support review images of an exam

Support export images as BMP , Raw Data or DICOM format

Support export cine clip as Raw Data format

Support export exams(including patient information, images)

Exam Archiving

All Clips and Static images stored on the system are stored internally in Raw Data format. They can be archived to other storage device for long-term storage as described below.

- Archived to DICOM server in DICOM format.(Archiving Clip to DICOM server is not available currently)
- Archived to USB device in either DICOM, Raw Data or .bmp format.

Connectivity

Network

- Wired network connection
- Wi-Fi connection

DICOM 3.0 Service

- DICOM Storage
  - Connectivity to DICOM server for storage of all static image with patient information.
  - Manual-Transfer in background on Demand
  - Transfer management UI for viewing transfer task status
- 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.

Supported Peripherals

Printers

- Video printers
  - SONY UP-X898MD
  - SONY UP-D25MD
  - SONY UP-25MD
- Graph/text printer
  - HP OfficeJet Pro 251dw
  - HP LaserJet Pro 200 M251n
  - HP Laserjet CP1525n Color
  - HP Deskjet Ink Advantage 2010
  - HP Deskjet 1010 Color
  - HP Deskjet 1510 Color
  - HP Deskjet Pro 400
  - HP Deskjet Pro M401d
  - Canon PIXMA E518
  - Canon iP2780
  - HP Deskjet 2029
  - HP Deskjet 1112
  - EPSON L310
  - HP DeskJet 1050
  - HP DeskJet 2050
  - HP DeskJet M252n
  - EPSON L130