X-PORTE SYSTEM SPECIFICATIONS

TRANSDUCER SPECIFICATIONS

Transducer	Exam Types	Bandwidth	Elements	Scan Depth	Needle Guide	Gauge Support	Cable Length
C60xp (new)	Gynaecology Abdominal, MSK, Nerve, Obstetric	5–2 MHz	192	30 cm	Multiple Fixed Angle	8.5 French 14, 15, 16, 17, 18, 20, 21, 22, 23	5.5 ft 1.7 m
HFL50xp	Breast, MSK, Nerve, Small Parts	15–6 MHz	256	6 cm	Fixed Angle Variable Angle	8.5 French 14, 15, 16, 17, 18, 20, 21, 22, 23	5.5 ft 1.7 m
L25xp	Arterial, MSK, Nerve, Ophthalmic, Superficial, Venous	13–6 MHz	128	6 cm	Variable Angle Transverse	18, 21, 22	7.25 ft 2.2 m
L38xp	Arterial, Nerve, Small Parts, Venous	10–5 MHz	128	9 cm	Multiple Fixed Angle Variable Angle	8.5 French 14, 15, 16, 17, 18, 20, 21, 22, 23	5.5 ft 1.7 m
P21xp	Abdomen, Cardiac, Lung, Obstetric	5–1 MHz	64	35 cm	Fixed Angle	8.5 French 14, 15, 16, 17, 18, 20, 21, 22, 23	5.5 ft 1.7 m
ICTxp (new)	Gynecology, Obstetric	9–5 MHz	192	15 cm	Fixed Angle	16, 17, 18	5.5 ft 1.7 m

SYSTEM SPECIFICATIONS

Stand Dimensions: 67.1 cm x 53.9 cm/ 26.4" x 21.2" (L x W)

Stand Height (max): 162.6 cm/64" (monitor up)

Stand Height (min): 107.2 cm/42.2" (monitor down)

Height Adjustment: 22.9 cm/9" travel

30.7 cm/12.1" Capacitive Touch Screen

Multi-touch gestures for system controls

Control Panel Tilt Adjustment: 0˚ to 110˚

Side to Side Turning: +/- 90˚ from centre

Monitor Tilt: 85˚ – 110˚ (5˚ tilting forward from vertical, 20˚ tilting back from vertical)

Casters: 12.7 cm/5″ Swivel, 4 Locking

System Boot up: <20 secs

HD Monitor: 48.3 cm/19″ diagonally

Image Size: 800 x 600

Screen Size: 1280 x 800

Screen Resolution: 1680 x 1050 (16:10)

Architecture: All digital broadband

Dynamic Range: Up to 183 dB

Gray Scale: 256 shades

HIPAA Compliance: Comprehensive tool set

IMAGE MODES

2D, Broadband Imaging

Tissue Harmonic Imaging

Pulse Inversion Harmonic Imaging

M-mode

Velocity Colour Doppler

Colour Power Doppler

Pulsed Wave Doppler

Pulsed Wave Tissue Doppler

Continuous Wave Doppler, ECG

IMAGE PROCESSING

Extreme Definition Imaging (XDI)

SonoAdapt Tissue Optimisation

SonoHD2 Imaging Technology

Dual Imaging

Dual Colour Imaging

SonoMB Multibeam Technology

AutoGain

AutoGain Brightness Adjust

Restore Default Gains

Dynamic Range

Duplex Imaging

8x Zoom Capability

Post Processing: Dynamic Range, Zoom

2D Image Optimisation: Average and Difficult

Overall Gain, Near and Far Field Gain Control

Colour and Doppler Flow Optimisation (low, medium, high)

Colour Variance Mode

2D Reduced Imaging Sector

STEEP NEEDLE PROFILING

(Available on these transducers and exams.)

HFL50xp, Breast, MSK, Nerve, Small Parts

L38xp, Nerve, Venous

L25xp, Nerve, Venous

USER INTERFACE AND PROGRAMMABLE CONTROLS

Capacitive Touch Screen

Multi-touch gestures for system controls

Configurable User Interface: Start Screen, More Controls, Programmable Keys, System Parameters Clinical Display Information

Programmable Keys (9): Functions: Show/Hide, End Exam, Reset Gain to Default Values, Print, Save Image, Save Video Clip, AutoGain, Calcs, None

Configurable Start Screen: Start, Scanning, Transducer/Exam Selection, Patient Information

Virtual QWERTY Keyboard for annotation

User defined exam types (up to five exam types for each exam type/transducer combination). For example, you can define five different exam types for Abdomen on P21xp transducer and five exam types for Abdomen on the C60xp transducer.

Image Acquisition Keys: Save, Review, Report, Video Clip Store, Video Clip Edit, DVR

Labeling of saved images

Display formats for Duplex Imaging: 1/3 and 2/3, ½ and ½, 2/3 and 1/3, side by side and full screen duplex

Doppler Controls: angle, steer, scale, baseline, sample volume, gain and volume

MEASUREMENTS

2D: Distance – 8 measurements, Ellipse, Manual Trace Volume, Target Depth, Bladder Volume

Doppler: Velocity measurements, Press Gradient, Elapsed Time, Acceleration, Heart Rate, Resistive Index, Systolic/Diastolic Ratio, Measurements can be traced manually or automatically.

Automatic trace results (determined by exam type): Velocity Time Integral, Peak Velocity, Mean Pressure Gradient, Mean Velocity on Peak Trace, Pressure Gradient, Cardiac Output, Peak Systolic Velocity, Time Average Mean, Systolic/ Diastolic Ratio, Pulsatility Index, End Diastolic Velocity, Acceleration Time, Resistive Index, Time Average Peak, Gate Depth, Heart Rate.

M-mode: All points guided workflow, distance and time measurements, Heart Rate

Editable results data sheets and reports

Note: Desktop configuration available.

Pending 510(k) clearance. X-Porte is not available for sale in the United States.

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CALCULATIONS

OB/Gyn/Fertility: Diameter/ellipse measurements, volume, 10 follicle measurements

2D OB Calculation Package Measurements: YS, GS, NT, CRL, BPD, OFD, HC, TTD, APTD, AC, FTA, FL, HL, Tibia, TCD, Cereb D, CM, Cervix Length, Amniotic Fluid Index, Heart Rate, Middle Cerebral Artery, Umbilical Artery

Biophysical Profile

User Configured Calculation Packages for GS, CRL, BPD, OFD, HC, TTD, APTD, AC, FTA, FL, HL and Tibia fetal measurements.

User Defined Measurements – 5

Twin Measurement Packages (A & B)

Foetal Growth Analysis: Store up to 5 exams, Growth Charts: EFW, BPD, HC, AC, FL and HC/AC Ratio

Customised Growth Charts – 120 entries for age tables, 210 entries for growth tables

Obstetrics (Twin A and B) Reports

Customised growth charts import from USB

VASCULAR

Diameter/ellipse measurements, volume flow, percent diameter and area reduction, peak velocity, end diastolic velocity, resistive index, pulsatility index, S/D Ratio, acceleration time, time average mean velocity, time average peak velocity

Carotid Calculation Package: CCA, ICA, ECA, ICA/CCA ratio, vertebral

CARDIAC

Cardiac Analysis Results: Cardiac Output, Ejection Fraction, Systolic Volume, Fractional Shortening, Cardiac Output, Cardiac Index, Stroke Volume, Stroke Index, Isovolumic Relaxation Time, LV Mass, PISA Area, Regurgitant Volume, Regurgitant Fraction, Velocity Time Integral, Peak Velocity, Mean Velocity, Peak Maximum Gradient, Peak Mean Gradient, Heart Rate, Epicardial Area, Endocardial Area, Aortic Valve Area, Mitral Valve Area, Pressure Half Time, Right Atrial Pressure, Right Ventricular Systolic Pressure, Acceleration Time, Deceleration Time, Delta Pressure: Delta Time (dP: dT), Qp/Qs

SMALL PARTS

Volume, Hip Angle, and d:D Ratio

ACUTE CARE

Calculations for Focused Exams of: Aorta, Kidney, Biliary, Renal/Urinary Tract, Obstetrical Pelvic Ultrasound, Non-Obstetric Pelvic Ultrasound. Results from Acute Care Calculations automatically appear in Acute Care Worksheets.

WORKSHEETS

Acute Care Worksheets (American College of Emergency Physician Guidelines) - Aorta, Kidney, Biliary, Renal/Urinary Tract, Obstetrical Pelvic Ultrasound, Non-Obstetric Pelvic Ultrasound, Thoracic, Lower Extremity Venous, Cardiac

Musculoskeletal Worksheets

ONBOARD IMAGE AND CLIP STORAGE REVIEW

2D Cine Review – 20 seconds

PW, CW, M Mode Cine Review – 16 seconds

Internal Flash Memory – 64 GB, approximately 57,000 images

Maximum storage in ECG beats mode is 10 heart cycles

Thumbnail review of saved images and clips

Prospective and Retrospective Clip Store

Auto Clip Export (auto export to USB at end of study)

Video clip playback at 1, ½ or ¼ of the captured rate

Video Clip Save Lengths: 2, 4, 6, 10, 15, 30 and 60 seconds.

Annotations on recalled images (prior to export)

Image Format: JPEG, AVI, BMP

DVR File Format: mp4

Export Format: HTML

JPEG Compression Options: High, Medium, Low

LABELING

Predefined Labels (35 per exam type)

Customised Labels (35 per exam type)

Predefined Pictograms - Abdomen, OB, Gyn, MSK, Anesthesiology, Cardiac

ONBOARD GUIDES

Visual Guide Education Tutorials Onboard: Imaging Basics, Sample Video Package

Visual Guide Education Tutorials Packages: Acute Care, Procedures, Anaesthesia

On-board Help System

POWER SUPPLY

System operates via battery or AC Power

Input: 100-240 VAC, 50-60 Hz

Output 1: 24 VDC output, 275 W max

Output 2: 100-240 VAC, 50-60 Hz (AC Printer)

Rechargeable lithium-ion battery

Battery Capacity: 385Wh

Battery life: 1.0 hour, 3 days on idle

Battery charge time: 90 min.

Battery life: 3-6 years

EXTERNAL DATA MANAGEMENT AND WIRELESS

5 USB 2.0 Ports

Ethernet Port

DVR USB Port

ECG Connector

Storage capacity alert if internal storage is less than 10%

Barcode auto-query (populates patients demographic from worklist)

DICOM IMAGE MANAGEMENT

Print, Store, Modality Worklist, Perform Procedure Step (PPS), Storage Commitment

Exam Routing: Diagnostic, Procedure, Education Exams

WIRELESS SOLUTIONS

Embedded Wireless Option: 802.11 (B and G networking)

Security policies: Open, WEP, Shared WEP, Radius, WPA, and WPA2

Key management protocols: WEP64, WEP128, and WPA/WPA2 (Personal and Enterprise)

ACCESSORIES

Medical Grade Black and White Printer (Sony UP-D897 USB B&W printer)

*Embedded DVR (Digital Video Recorder)

*Triple Transducer Connect

PowerPark

USB Bar Code Reader

Footswitch

ECG Module

*Storage Basket

Standard with X-Porte

SUPPORTED LANGUAGES

English, French, Italian, Portuguese, Spanish, German

PARAMETERS CHOICES USER DEFINED EXAM TYPE

Depth

2D Mode Near and Far Gains

AutoGain Brightness Adjust

2D Mode THI

SonoMB on/off

2D Optimisation (Average/Difficult)

Dynamic Range

Image Orientation (U/R, U/L, D/L, D/R)

M-mode Sweep Speed

Colour Gain

Colour Maps (CVD, CPD, Variance)

Colour Type (CVD, CPD)

Colour Variance (On/Off)

Colour Scale

Colour Optimisation (High, Mid, Low)

Color Wall Filter

Colour Steer Angle

PW/CW Doppler Gain

PW Doppler Sample Volume Size

TDI-PW Doppler Sample Volume Size

Doppler Invert

Doppler Trace Type (Peak / Mean)

Doppler Trace (Above/Below/All)

Duplex Display Format

PW Doppler Scale

TDI-PW Doppler Scale

CW Doppler Scale

Doppler Sweep Speed

TDI-PW Sweep Speed

PW/CW Doppler Baseline

PW TDI Doppler Baseline

Doppler Angle Correct