

## SPECIFICATION SHEET.



The X-Porte ultrasound kiosk represents an entirely new approach to clinical ultrasound. Its imaging, features, and educational resources are fluidly brought together in a convenient, all-in-one kiosk design. Its self-explanatory control panel makes system navigation a breeze, and its sealed touch screen leaves no buttons for pathogens to hide behind.



## TRANSDUCER SPECIFICATIONS

Transducer	Exam Types	Bandwidth	Elements	Scan Depth	Needle Guide	Gauge Support	Cable Length
C11xp	Abdominal, Arterial, Neonatal, Nerve, Venous	8-5 MHz	96	15 cm	No Needle Guide	N/A	5.5 ft 1.7 m
C35xp	Abdominal, MSK, Nerve	8-3 MHz	128	16 cm	Multiple Fixed Angle Variable Angle*	8.5 French 14, 15, 16, 17, 18, 20, 21, 22, 23	5 ft 1.5 m
C60xp	Abdominal, Gynaecology, MSK, Nerve, Obstetrics	5-2 MHz	192	30 cm	Multiple Fixed Angle Variable Angle	8.5 French 14, 15, 16, 17, 18, 20, 21, 22, 23	5.5 ft 1.7 m
ICTxp	Gynaecology, Obstetrics	9-5 MHz	192	15 cm	Fixed Angle	16, 17, 18	5.5 ft 1.7 m
HFL38xp	Arterial, Breast, Lung, MSK, Nerve, Small Parts, Venous	13-6 MHz	192	6 cm	Multiple Fixed Angle Variable 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
HSL25xp	Arterial, Lung, MSK, Nerve, Ophthalmic, Superficial, Venous	13-6 MHz	128	6 cm	No Needle Guide	N/A	7.25 ft 2.2 m
L25xp	Arterial, Lung, 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, Lung, 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
P10xp	Abdominal, Cardiac, Neonatal	8-4 MHz	64	15 cm	Fixed Angle	Hall Effect Sensor 8.5 French 14, 15, 16, 17, 18, 20, 21, 22, 23	5.5 ft 1.7 m
rP19xp	Abdomen, Cardiac, Lung, Obstetrics, Orbital, Transcranial	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
TEExp	Cardiac	8-3 MHz	64	18 cm	No Needle Guide	N/A	6.5 ft 2.0 m
D2xp	Cardiac	2 MHz	N/A	N/A	No Needle Guide	N/A	5.5 ft 1.7 m

\*Variable angle needle guide gauge support is 12, 14, 16, 18, 20, 21, 22 and 25

## SYSTEM SPECIFICATIONS

<b>Stand Dimensions:</b>	67.1 cm x 53.9 cm/ 26.4" x 21.2" (LxW)
<b>Stand Height (max):</b>	162.6 cm/65" (monitor up)
<b>Stand Height (min):</b>	107.2 cm/42.2" (monitor down)
<b>Height Adjustment:</b>	22.9 cm/9" travel
<b>Control Panel:</b>	30.7 cm/12.1" Capacitive Touch Screen
<b>System Controls:</b>	Multi-touch gestures for system controls
<b>Control Panel Tilt Adjustment:</b>	0° to 110°
<b>Side to Side Turning:</b>	+/- 90 degrees from centre
<b>Monitor Tilt:</b>	110° (5° tilting forward from vertical, 20° tilting back from vertical)
<b>Casters:</b>	12.7 cm/5" Swivel, 4 Locking
<b>HD Monitor:</b>	48.3 cm/19" diagonally (minimum)
<b>Image Size:</b>	800 x 600
<b>Control Panel Resolution:</b>	1280 x 800
<b>Screen Resolution (minimum):</b>	1680 x 1050 (16:10)
<b>Architecture:</b>	All digital broadband
<b>Dynamic Range:</b>	Up to 183 dB
<b>Gray Scale:</b>	256 shades
<b>HIPAA Compliance:</b>	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 (update and simultaneous)  
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 Optimization:** Res, Gen, Pen  
Overall Gain, Near and Far Field Gain Control  
Colour and Doppler Flow Optimisation (low, medium, high)  
Colour Variance Mode  
2D Reduced Imaging Sector (steerable)

## STEEP NEEDLE PROFILING

(Available on these transducers and exams)  
**C35xp:** MSK, Nerve  
**C60xp:** MSK, Nerve  
**HFL38xp:** Arterial, Breast, MSK, Nerve, Small Parts, Venous  
**HFL50xp:** Breast, MSK, Nerve, Small Parts  
**HSL25xp:** Arterial, MSK, Nerve, Venous  
**L25xp:** Arterial, MSK, Nerve, Venous  
**L38xp:** Arterial, Nerve, Small Parts, Venous

## USER INTERFACE AND PROGRAMMABLE CONTROLS

Capacitive touchscreen  
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 rP19xp 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, 1/2 and 1/2, 2/3 and 1/3, side by side and full screen duplex  
**Doppler Controls:** Angle, Steer, Scale, Baseline, Sample Volume, Gain and Volume

*Note: Desktop configuration available*

## MEASUREMENTS

**2D:** Distance (8 measurements), Area, Circumference, Ellipse, Manual Trace, Volume, Target Depth, Bladder Volume, Area and Diameter Reduction

**Doppler:** Velocity Measurements, Pressure Gradient, Elapsed Time, Acceleration Time, Heart Rate, Resistive Index, Systolic/Diastolic Ratio, Volume Flow, VTI, Frequency. 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, Minimum Diastolic 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

## OB/GYN

**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, Cereb D, CM, Cervix Length, Amniotic Fluid Index

Heart Rate, Middle Cerebral Artery, Umbilical Artery Biophysical Profile

User-Selected Gestational Age References for GS, CRL, BPD, OFD, HC, TTD, APTD, AC, FTA, FL, HL and Tibia Foetal 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 Gestational Age and Growth Tables:** 120 entries for age tables, 210 entries for growth tables, import from USB

User-Selected References for Estimated Foetal Weight, 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, Time Average Peak Velocity

**Carotid Calculation Package:** CCA, ICA, ECA, ICA/CCA Ratio, Vertebral

## SMALL PARTS/MSK

Area and Diameter Reduction, Volume, Hip Angle, and d:D Ratio

## TCD

TAP, TAM, PSV, EDV, MDV, RI, PI, S/D Ratio, and Gate Depth for MCA, Bifur, ACA, ACoA, TICA, PCA, PCoA, OA, Siphon, ECICA, FM, VA, BA, AL, ECVA. Ratios: MCA prox/ECICA, TICA/ECICA, Siphon/ECICA

## CARDIAC

LV and RV Diameters (diastole and systole), Ejection Fraction (Teichholz and Simpson's method of discs for single and bi-plane), Fractional Area Change, LV Volumes with optional border assist, Left Atrial Volumes (single and bi-plane Simpson's method of discs), Left Atrial Area, IVC Diameter (minimum, maximum, collapse percentage), Fractional Shortening, Cardiac Output, Cardiac Index, Stroke Volume, Stroke Index, Isovolumic Relaxation Time, LV Mass, PISA Area, Regurgitant Volume, Regurgitant Fraction, Effective Regurgitant Orifice, 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, Tricuspid Valve Area, Deceleration Time, Delta Pressure: Delta Time (dP: dT), Qp/Qs, TAPSE, s'

## 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

**Editable 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

Customisable 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 28,500 images

**Maximum Storage in ECG Beats Mode:** 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

Measure and calculate on recall

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, Anaesthesiology, Cardiac

## ONBOARD GUIDES

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

**Visual Guide Education Tutorials Packages:** Acute Care, Procedures, Anaesthesiology, MSK  
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 charges to 80% capacity in 3 hours

**Battery life:** 3-6 years

## DATA MANAGEMENT AND CONNECTIVITY

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)

IPv6 Internet Protocol

## DICOM IMAGE MANAGEMENT

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

**Exam Routing:** Diagnostic, Procedure, Education Exams

## WIRELESS SOLUTIONS

**2.4 GHz and 5 GHz Wireless:** 802.11 (B, G and N networking)

**Security Policies:** Open, WEP, Shared WEP, Radius, WPA, and WPA2

**Key Management Protocols:** WEP64, WEP128, and WPA/WPA2 (personal and enterprise)

## SUPPORTED LANGUAGES

English, French, German, Italian, Portuguese, Spanish

## ACCESSORIES

Medical Grade Black and White Printer

Embedded DVR (digital video recorder)\*

Triple Transducer Connect\*

PowerPark

USB Bar Code Reader

Footswitch

ECG Module

ECG Slave Cable

Storage Basket\*

Digital and VGA Video Out\*

Auxiliary Transducer Holder\*

AC Cord Retainer\*

*\*Standard with X-Porte*

## PARAMETER 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 Type (CVD, CPD)

Colour Variance (On/Off)

Colour Scale

Colour Optimisation (High, Mid, Low)

Colour 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

### SonoSite Worldwide Offices