

# Sonosite ZX

## General System and Stand Specifications

(Dimensions width x height unless otherwise stated)

**Stand Footprint:**

<b>Width</b>	19.9 in 50.6 cm
<b>Length</b>	22.6 in 57.4 cm

**Maximum Height (monitor raised):**

53.7 in/ 136.5 cm

**Minimum Height (monitor lowered):**

39.2 in/ 99.5 cm

**Height Adjustment Range:**

4.4 in/ 11.2 cm

**Clinical Display Adjusts:**

0 to 140 degrees

**Touch Panel Angle:**

20 degrees from horizontal

**Weight (system and stand):**

60.6 lbs/ 27.5 kg

**Weight (system only):**

16.9 lbs/ 7.65 kg

**Casters:**

4 inch Swivel, 4 Locking

**User Interface:**

Projected Capacitive (PCAP) Touch Panel  
(10 x 5.7 in/ 34.4 x 19.4 cm) and physical buttons

**Touch Panel Control Size:**

10 x 5.7 in / 256 x 146 mm

**Clinical Monitor Size:**

15.6 in/ 39.6 cm

**Clinical Monitor Display Size:**

13.5 x 7.6 in/ 34.4 x 19.4 cm

**Clinical Monitor Image Size:**

8.1 x 6.1 in/ 20.7 x 15.5 cm

**Clinical Monitor Resolution (minimum):**

<b>Display Size</b>	1920 x 1080 px
<b>Image Size</b>	1152 x 864 px

**Transducer Connections:**

<b>System only</b>	(1) Transducer port
<b>System and Stand</b>	(3) Transducer ports with optional Triple Transducer Connect (TTC) accessory

**Liquid Ingress Protection Rating (system only):**

IP22

**Immersion Rating (transducers):**

IPX7

**Operating System:**

Windows 10 IoT Enterprise 2019 LTSC

**Hard Drive Capacity:**

128 GB

**System Boot Up:**

< 40 seconds

**Architecture:**

Digital broadband

**Dynamic Range:**

Up to 183 dB

**Grayscale:**

256 shades

**HIPAA Compliance:**

Meets Federal Information Processing Standards (FIPS) for Moderate security control selections per FIPS199, FIPS200, and NIST 800-53.

**Durability:**

The system shall withstand a drop from a height of 1 meter. The system shall be safe and function normally after this drop.

## Warranty & Service

5-year standard warranty on the system

5-year standard warranty on the stand head

5-year standard warranty on C5-1, IC10-3, L19-5, L12-3, L15-4, and P5-1 transducers

1-year standard warranty on the T8-3 transesophageal transducer

1-year standard warranty on battery, stand and accessories carrying the manufacturer's label excluding the system and stand head

## Imaging Modes

2D/B-mode (Broadband Imaging, Tissue Harmonic Imaging, Pulse Inversion Harmonic Imaging)

M-mode

Color Velocity Doppler (CVD)

Color Power Doppler (CPD)

Color Variance (Cardiac Only)

Pulsed Wave Doppler (PW)

Tissue Doppler Imaging (TDI) (Cardiac Only)

Continuous Wave Doppler (CW) (Cardiac Only)

## B-Mode Imaging

Support imaging frame rates up to 100Hz

8x live Read Zoom capability

4x Frozen post-processing Zoom

Dual Imaging

Write Zoom on C5-1, IC10-3, T8-3 and P5-1 transducers (Abdomen, OB, Early OB, Gynecology, Prostate and cardiac exam types only)

Centerline graphic on display for linear and curvilinear transducers

Onscreen needle guide support for IC10-3 and L19-5 transducers

Auto Gain adjust and reset

Procedure Mode

### Screen Depth:

1 – 35 cm

### B-Mode Controls:

Depth, Gain, Time Gain Compensation (TGC), Auto Gain, SonoMB, 2D Mode THI, 2D Image Optimization (Res, Gen, Pen), Dynamic Range (Live and Frozen), Image Orientation (U/R, U/L, D/L, D/R), Sector Width Control (Steerable, Cardiac Only), Thermal Index (TIS/TIB/TIC), LVO, Output Power Control

### B-Mode Imaging Features:

[Sonosite proprietary speckle reduction algorithm](#)

**SonoADAPT Imaging Technology:** Adjusts imaging parameters based on depth eliminating complicated manipulation of multiple controls.

**SonoMB:** Multi-beam technology to effectively reduce speckle artifact, enhance tissue contrast, and improve border detection.

## Auto Steep Needle Profiling

(Available for these transducers and exams)

**C5-1:** MSK, Nerve, Spine

**L19-5:** Arterial, MSK, Nerve, Superficial, Venous

**L12-3:** Arterial, Breast, Carotid, MSK, Nerve, Superficial, Venous

**L15-4:** Breast, MSK, Nerve, Superficial

## M-Mode Imaging

### M-Mode Controls:

Depth, Gain, Time Gain Compensation (TGC), Auto Gain, SonoMB, THI, Image Optimization (Res, Gen, Pen), Dynamic Range (Live and Frozen), M-Mode Sweep Speed, Anatomical M-Mode

### M-Mode Display Format:

1/3 and 2/3, 1/2 and 1/2, 2/3 and 1/3, side by side

## Color Imaging

Max PRF used is 16667Hz

### Color Modes:

Color Velocity Doppler, Color Power Doppler, Color Variance (Cardiac Only)

### Color Controls:

Color Gain, Color Scale, Color Invert, Color Flow Optimization (High, Mid, Low), Color Wall Filter, Color Steer Angle (Linear Only), Adjust Color box size and position, Color Baseline, Color Compare, Hide/Show Color

## Spectral Doppler Imaging

Cine review available

256 gray levels in the spectral Doppler display

### Doppler Modes:

Pulsed wave (PW), Tissue Doppler Imaging (TDI) (Cardiac Only), Continuous Wave (CW) (Cardiac Only)

### Doppler Controls:

Doppler Gain, Doppler Gate Size (PW/TDI), Doppler Invert, Doppler Auto Trace Type (Peak/Mean/Above/Below/All), Doppler Scale, Doppler Steer Angle (Linear Only), Doppler Sweep Speed, Doppler Baseline, Doppler Angle Correct, Doppler Wall Filter, Simultaneous (Linear Transducers Only), Doppler Volume

## User Interface and Programmable Controls

Clinical Display Information

Virtual QWERTY Keyboard

### Touch Panel:

Projected Capacitive (PCAP) Touch Screen User Interface

### Physical Buttons:

TGC (Time Gain Compensation), Gain Wheel, Auto Gain, Depth, Select, Update, Touchpad, Annotations, Calculations, Image Save, Clip Save, Freeze, Color, M-Mode, Doppler, and 2D

### Configurable Start Screen:

Start, Scanning, Transducer/Exam Selection, Patient Information

### User Defined Exam Types:

Imaging mode settings and on screen exam specific optimization locations

## On-board Education

### How-To Videos:

Imaging Basics, Transducers

### Scan-Along Education Tutorials:

Over 150 in English, French, German, Spanish, Japanese, Italian, and Mandarin

### Tutorial Categories:

Acute Care, Anesthesia, Pain Management, Obstetrics/ Gynecology, Procedures, and Musculoskeletal

## Scan-along Educational Tutorials

### Anesthesiology & Pain Management:

#### Abdomen

II/IH Block, Rectus Sheath, TAP, Quadratus Lumborum

## Thorax

Paravertebral, Airway, Erector Spinae, PECS I & II

## Lower Extremity

Adductor Canal, Femoral, Popliteal Sciatic, Saphenous, Subgluteal Sciatic

## Upper Extremity

Axillary, Infraclavicular, Interscalene, Median & Ulnar, Supraclavicular

## Obstetrics & Gynecology:

### Gynecology

Ovarian Cyst-TA, Pelvis-TA

### Obstetrics

1st Trimester OB- TA, 1st Trimester OB- TV, AFI, Amniocentesis, Ectopic-TA, Ectopic-TV, Fetal Biometry, Fetal Viability

## Procedures:

### Vascular Access

Femoral Artery, Femoral Vein IJV Long, IJV Transverse, PICC, Radial Artery, Subclavian Axillary

### Other Procedures

Abscess Drainage, AFI, Amniocentesis, Foreign Body, Lumbar Puncture, Paracentesis, Pericardiocentesis, Thoracentesis

## Acute Care:

### eFAST

Lung, Lung Phased, Left Upper Quadrant, Pelvis, Right Upper Quadrant, Subxiphoid

### eFAST Pathology

Left Upper Quadrant Free Fluid, Pelvis Free Fluid, Right Upper Quadrant Free Fluid, Subxiphoid Free Fluid

### Cardiac

Apical, PSAX Heart, PLAX Heart, Subxiphoid

### Cardiac Pathology

Infective Endocarditis, Tamponade

### Lung/Thorax and Pathology

Airway, Lung, 12-Point Lung Exam, Pleural Effusion, Pneumonia, Pneumothorax, Pulmonary Edema

### Abdomen

Aorta, Gallbladder Evaluation, Inferior Vena Cava, IVC Volume Status, Left Kidney, Right Kidney

### Abdomen Pathology

AAA, Appendicitis, Cholecystitis, Cholelithiasis, Hydro-nephrosis, Pyloric, Stenosis, Renal Calculus

### Pelvis

Bladder Volume, Pelvis-Transvaginal, Ovarian Cyst-TA, Testicular Torsion

### Extremity

DVT, Long Bone Fracture, Tibia

### Head/Neck and Pathology

Airway, Ocular, ICP, Retinal Detachment, Thyroid Evaluation

## COVID-19:

### eFAST

Lung, Lung Phased, Left Upper Quadrant, Pelvis, Right Upper Quadrant, Subxiphoid

### eFAST Pathology

Left Upper Quadrant Free Fluid, Pelvis Free Fluid, Right Upper Quadrant Free Fluid, Subxiphoid Free Fluid

### Cardiac

Apical, PSAX Heart, PLAX Heart, Subxiphoid

### Cardiac Pathology

Infective Endocarditis, Tamponade

### Lung/Thorax and Pathology

Airway, Lung, 12-Point Lung Exam, Pleural Effusion, Pneumothorax, Pulmonary Edema

### Abdomen

Aorta, Inferior Vena Cava, IVC Volume Status, Left Kidney, Right Kidney

### Head/Neck and Pathology

Airway

### Extremity

DVT

### Procedures

Pericardiocentesis, IJV Transverse, Subclavian Axillary

## Musculoskeletal:

### Shoulder/Rotator Cuff

Infraspinatus, Rotator Cuff, Rotator Cuff Tear, Tendinosis, Subscapularis Tendon, Supraspinatus Tendon

### Shoulder – Other

AC Joint, AC Impingement, Biceps Tendon, Glenohumeral Joint, Posterior Groove



## Shoulder Injections

AC Joint, Lateral Shoulder, Median Shoulder

## Elbow

Anterior Recess, Cubital Tunnel, Distal Biceps Tendon, Elbow Olecranon, Elbow Ulnar Nerve, Lateral Aspect, Median Aspect

## Elbow Pathology

Distal Biceps Tendon Tear, Lateral Epicondylitis, Ulnar Nerve Comp

## Wrist/Hand and Pathology

Guyon's Canal, Wrist Ulnar Nerve, Volar, Carpal Tunnel, DeQuervain's, Median Nerve Entrapment

## Hip/Pelvis Injections

Proximal Hamstring, Pubic Symphysis, Sacroiliac Joint

## Knee

Iliotibial Band, Infrapatellar Tendon, LCL, MCL, Meniscus, Quadriceps Tendon, Tibia

## Lower Extremity Injections

Achilles Tendon, Baker's Cyst, Lateral Knee, MCL, Medial Knee, Patellar Tendinosis, Achilles Tendon Tear, Plantar Fasciitis

## Ankle/Foot and Pathology

Ankle Ext Tendons, Ankle Flexor Tendons, MTP Joint, Tarsal Joint, Achilles Tendon Tear, Plantar Fasciitis

## How-to Videos

### Transducers:

Transducer Types, Orientation Marker

Ultrasound Imaging Terminology

## On-board Image and Clip Storage Review

Thumbnail review of saved images and clips

### 2D Cine Review:

Minimum 10 seconds (or until number of frames fill up the 384 MB cine memory)

### PW, CW, M-Mode Cine Review:

Minimum 2 cine frame (slow sweep 23 seconds, fast sweep 6 seconds)

### Internal Storage:

128 GB

### Maximum Number of Clips/Images per Study:

500

### Maximum Number of Studies:

Approximately 700 with an average of 30 clips/images per study

### Report Export Format:

PDF

### Image/Clip Export Format:

JPEG, BMP and MP4

### Clip Store:

Prospective and retrospective

### Digital Video Output:

1920 x 1080p at 60 Hz

### Video Clip Playback:

1, 1/2, 1/4 of captured rate

### Video Clip Save Lengths:

2, 3, 4, 6, 10, 15, 30, 60 seconds (Retrospective/Prospective)

### DICOM Export to USB:

RGB, JPEG, or Mono for images, MJPEG for clips

### JPEG Compression Options:

High, Medium and Low

## Worksheets

### Acute Care Worksheets:

Aorta, Appendix, Bladder, Cardiac, Deep Vein Thrombosis (DVT), eFAST, FAST, Gallbladder, Generic, Gynecology, Musculoskeletal, Obstetrics 2<sup>nd</sup>/3<sup>rd</sup> Trimester, Obstetrics 2<sup>nd</sup>/3<sup>rd</sup> Trimester Multiple, Obstetrics, Ocular, Renal, Soft Tissue, Thoracic

### Procedures:

Abscess Drainage, Arterial Line, Arthrocentesis, Central Venous Line, Paracentesis, Pericardiocentesis, Peripheral Venous Line, Peritonsillar Abscess Drainage

## Labeling

Predefined labels and pictograms

Up to 5 arrows

On-screen keyboard label entry

## Labeling Packages

MSK, Foot, Ankle, Knee, Hip, Shoulder, Elbow, Wrist, Hand, Spine, Nerve

Breast, Superficial, Ophthalmic

Transcranial, Carotid, Arterial, Venous

Abdomen, Lung, Focused Cardiac, Cardiac

Gynecology, Early OB, Focused OB, OB, Prostate

## Basic Measurements

### 2D Measurements:

Distance (10 Measurements), Curved Distance, Area, Circumference, Ellipse, Manual Trace, Volume, Target Depth, Angle, Volume Flow Diameter

### Doppler Measurements:

Velocity, 2-Point Velocity, Slope, Time, Manual Trace, Auto Trace, Heart Rate, Resistive Index, Pulsatility index, Systolic/Diastolic Ratio, Volume Flow, Velocity Time Integral, TAM, TAP, PSV, EDV, MDV

Doppler waveforms 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 Measurements:

Distance, Time, Slope, Heart Rate

## Calculation Packages

### Abdomen

#### 2D Calculations and Measurements:

Bladder Volume, Post-Void Bladder Volume, IVC Collapse, Aorta, CBD, CHD, Gallbladder, Liver, Spleen and Renal

#### Doppler Calculations:

Renal aortic ratio

#### M-Mode Calculations:

IVC Collapse

### Cardiac

#### 2D Cardiac Calculations and Measurements:

Teichholz Ejection Fraction, Fractional Shortening, Simpson's method of discs for single and bi-plane ventricular volumes and ejection fraction, Left and Right Fractional Area Change, Planimetry for Valve Area (AVA, MVA), Vena Contracta (AV, MV), LV Mass, LV Mass Index, LA/Ao, IVSd/LVPWd, IVSs/LVPWs, IVS FT, LVPW FT, LA Single and Biplane Volume, LA Biplane Volume Index, LA Area, RA Simpson's Volume, RA Volume Index, LV Dimensions, RV Dimensions, Aorta Dimensions, IVC Collapse, IVC Distensibility Index

#### M-Mode Cardiac Calculations and Measurements:

Teichholz Ejection Fraction (EF), Fractional Shortening, RVDd, LV Dimensions, TAPSE, MAPSE, EPSS, IVC Collapse, IVC Distensibility Index, D-E Slope, E-F Slope, Aortic Cuspal Separation, LVET, IVS FT, LVPW FT, LV Mass, LV Mass Index, IVSd/LVPWd, IVSs/LVPWs, LA/Ao, Heart Rate

#### Tissue Doppler Calculations and Measurements:

Sep e', Sep a', Lat e', Lat a', Ant e', Inf e', Sep E/e', Lat E/e', RV s', Ant E/e', Inf E/e'

## Doppler Cardiac Calculations and Measurements:

Cardiac Output, Cardiac Index, Stroke Volume, Stroke Index, Isovolumic Relaxation Time, MV Adur, Aortic Valve Area (By VTI and Vmax), Aortic Valve Area Index, AV Velocity Ratio, LVET, Heart Rate, Mitral Valve Area (by PHT and VTI), Pressure Half Time (MV, TV, AI), AI VTI, Right Atrial Pressure, Right Ventricular Systolic Pressure (RVSP), Pulmonary SV, Deceleration Time, Delta Pressure: Delta Time (dP: dT), Pulmonary AT (Acceleration Time), PV VTI, PV VMax, TV VTI, TV E and A, Qp/Qs, RIMP, MV E/A, Sep E/e', Lat E/e', Inf E/e' and Ant E/e', Pulmonary vein velocities (S, D, A, Adur), VTI % Change, SV % Change, CO % Change, VMax % Variation, VTI % Variation, SV % Variation

## Gynecology and Obstetrics

Biophysical Profile

### 2D Gynecology Calculations and Measurements:

Ovary Volume (right and left), Endometrium, Uterus Volume, 10 Follicular Measurements, (right and left)

### 2D Early Obstetrics Calculations and Measurements:

YS, Mean Gestational Sac, NT, CRL, BPD, Myometrial Mantle, Cervical Length, EDD by LMP, EDD by AUA, GA by EDD, AUA, Ovary Volume (right and left), GA by LMP

### 2D Obstetrics Calculations and Measurements:

BPD, OFD, HC, AC, FL, Cerebellar Diameter, Cisterna Magna, OOD, IOD, Lateral Ventricle, Cervical Length, Amniotic Fluid Index, EDD by LMP, EDD by AUA, GA by LMP, GA by EDD, AUA, EFW, EFW Percentile, HC/AC, FL/AC, FL/BPD, FL/HC, Cephalic Index (HC)

### M-Mode Calculations:

FHR

### Doppler Obstetrics Calculations:

MCA Trace (RI, PI, S/D, EDV, PSV), Umbilical Artery Trace (RI, PI, S/D, EDV, PSV), Umbilical Artery S/D Ratio (S/D, PSV, EDV, RI), FHR

### User-Selected Gestational Age References:

GS, CRL, BPD, OFD, HC, AC, FL

### Measurement Packages for Multiples:

Quads

### Small Parts and Musculoskeletal

#### 2D Calculations:

d:D hip ratio, hip angles

#### Transcranial Doppler (TCD)

#### Doppler Basic Measurements:

TAP, PSV, EDV, MDV, RI, PI, S/D Ratio, Gate Depth, Volume Flow including VTI

### Vascular

#### Doppler Basic Measurements:

Volume Flow including VTI, Peak Systolic Velocity, End Diastolic Velocity, Resistive Index, Pulsatility Index, S/D Ratio, Time Average Peak Velocity, Minimum Diastolic Velocity





## Carotid

### Doppler Basic Measurements:

Volume Flow including VTI, Peak Systolic Velocity, End Diastolic Velocity, Resistive Index, Pulsatility Index, S/D Ratio, Time Average Peak Velocity, Minimum Diastolic Velocity

### 2D Carotid Measurements and Calculations:

CCA Diameter

### PW Carotid Measurements and Calculations:

CCA VTI, PSV, EDV, RI, Time, Heart Rate, Carotid Blood Flow

## DICOM Image Management

Store, Modality Worklist, Modality Perform Procedure Step (MPPS), Storage Commitment

Basic Text and Comprehensive Structured Reports (SR)

DICOM USB export

DICOM compliant

Allow saving DICOM configuration via USB for easy replication or restoration

DICOM TLS Secure Transport Connection Profile Support

### Supported SOP Classes:

Verification, Ultrasound Image Storage, Ultrasound Multi-frame Image Storage, Secondary Capture Image Storage, Modality Worklist Information Model - FIND, Modality Performed Procedure Step, Storage Commitment Push Model, Basic Text SR, Comprehensive SR

## Connectivity and External Data Management

1080p digital video output (compatible with 1080p displays) – stand only

2 USB 2.0 Ports (stand only)

2 USB 3.0 Ports (system engine)

1 USB Port for optional printer

Ethernet Port

Storage capacity alert if internal storage is less than 10%

Study data Auto Delete function

Automatic time setting by synchronization with network time server

IPv4 and IPv6 Networking (DHCP, SLAAC, and static addressing)

## Optional Medical Informatics

Onboard QView application for QPathE

### Barcode Expressions:

Sonosite barcode scanner customization software (English only)

## Wireless Solutions

FIPS 140-2 wireless security protocol

### Encryption Protocols:

AES (Advanced Encryption Standard), TKIP (Temporal Key Integrity Protocol)

### Key Management Protocols:

WPA/WPA2 Personal, WPA/WPA2 Enterprise (EAP-TLS, EAP-PEAP), RADIUS (EAP-TLS, EAP-PEAP)

### 2.4 GHz and/or 5 GHz Embedded Wireless Option:

#### Shared Key authentication

802.11i

#### Wireless Protocols supported

802.11a/b/g/n/ac

#### Wireless Roaming supported

802.11k and 802.11r (with FT-802.1x authentication only / without support for FT-PSK)

## Data Security

System meets Federal Information Processing standards (FIPS) for moderate security control selections per FIPS199, FIPS200, and NIST 800-53

Secure Boot

User and role-based authentication

LDAP support

Federal System Use Notification

Guest mode support

DICOM TLS Secure Transport Connection Profile support

System wide whitelisting

Hardened OS and services

System firewall

MDS2 listed on sonosite.com

### Supported Wi-Fi Security Policies:

Open, Radius, WPA, WPA2

### Complex Password Rules:

Complex passwords, minimum password length, automatic password aging, and password history re-use limit rules

### Password Protection:

Username and password capability

### Data encryption for data at rest and in transit:

FIPS 140-2

## Admin User Settings

Manage, import, create, edit and delete user profiles

Connectivity settings including network status

Configure connection to directory server, manage password requirements

Data security mode, data import and export control, create notifications

Audio and display settings

Date, Time and Time Zone

Power and battery settings

System and Log Information

## Stand & Storage

Adjustable stand height and stand head  
4 transducer holders  
Triple Transducer Connect  
Dedicated holders for disinfectant wipes and gel  
Large storage basket  
AC cord retainer  
I/O connections

## Optional Accessories

Sonosite ZX Stand  
Sonosite ZX Stand battery  
Medical-grade B&W printer  
Barcode Scanner  
ECG Module with patient leads and accessory cable with adaptor  
Triple Transducer Connect  
USB memory device

## Battery Management

System operates via battery or AC power  
Battery charge indicator light on lid  
Charge indicator on clinical monitor  
**Battery Charge Warning:** At charge of 5% or lower

### System Battery and Stand Battery

**Battery Life:** 3.0 hours  
**Battery Charging Time:** Charges from 15 - 80% in 2 hours 35 minutes  
**System Battery**  
**Battery:** Rechargeable lithium-ion  
**Battery Capacity:** 129.6 Watt hours  
**Battery Life (system only):** 1 hour  
**Battery Charging Time (system only):** Charges from 15 - 80% in 90 minutes  
**Battery Lifecycle:** 80% capacity after 500 charge cycles

### Stand Battery

**Battery:** Rechargeable lithium-ion  
**Battery Capacity:** 259.2 Watt hours  
**Battery Life:** 2.0 hour  
**Battery Lifecycle:** 80% capacity after 500 charge cycles

## Portable Power Supply

**Power Input:**  
100-240 VAC, 50-60 Hz, 3.4-1.3 A  
**Power Output:**  
26.7 VDC, 8.24 A, 220 Watts max; Class 1, continuous use

## Stand Rating

**Power Input:**  
100-240 VAC, 50-60 Hz, 6.0-2.5 A

## Heat Output

**While operating and charging (max power):**  
200W - 682 BTUs  
**While operating:**  
120W - 409.2 BTUs

## Infection Control Standards

Cleaners and Disinfectants Tool located on [sonosite.com](http://sonosite.com)  
Cleaning Mode available for ease of disinfection  
System is IP22 rated for liquid ingress  
System work surface is sealed edge-to-edge  
Transducers are IPX7 rated for immersion

## Environmental Limits for System, Stand, and Transducers

### Operating Limits:

#### Stand

Temperature: 32-104°F (0-40°C)  
Humidity: 15-95% relative humidity (R.H.)  
Atmospheric Pressure: 700-1060 hPa (0.69-1.05 ATM)

#### System and Transducers

Temperature: 32-104°F (0-40°C)  
Humidity: 15-95% relative humidity (R.H.)  
Atmospheric Pressure: 700-1060 hPa (0.69-1.05 ATM)

### Storage Limits:

#### Stand

Temperature: -31-149°F (-35-65°C)  
Humidity: 15-95% relative humidity (R.H.)  
Atmospheric Pressure: 500-1060hPa (0.5-1.05 ATM)

#### System and Transducers

Temperature: -31-149°F (-35-65°C)  
Humidity: 15-95% relative humidity (R.H.)  
Atmospheric Pressure: 500-1060 hPa (0.5-1.05 ATM)

## Supported Languages

### System User Interface Languages:

English, French, Italian, Japanese, Spanish, Simplified Chinese



## Transducers

### C5-1

**Exam Types:** Abdomen, Gynecology, Lung, Nerve, Musculoskeletal, Early Obstetrics, Obstetrics, Spine

**Bandwidth:** 5 - 1 MHz

**Size:** 60 mm

**Scan Depth:** 4.7 - 30 cm

**Elements:** 128

**Optional Needle Guide Starter Kit:** CIVCO Infiniti Plus™ variable-angle, in-plane guide



### IC10-3

**Exam Types:** Gynecology, Early Obstetrics, Obstetrics, Prostate

**Bandwidth:** 10 - 3 MHz

**Size:** 26 mm

**Scan Depth:** 3 - 15 cm

**Elements:** 128

**Optional Needle Guide Starter Kit:** CIVCO Disposable Endocavity Needle Guides



### L19-5

**Exam Types:** Arterial, Musculoskeletal, Nerve, Ophthalmic, Superficial, Venous

**Bandwidth:** 19 - 5 MHz

**Size:** 20 mm

**Scan Depth:** 1 - 6 cm

**Elements:** 128

**Optional Needle Guide Starter Kit:** CIVCO Infiniti Plus™ variable-angle, in-plane guide and AccuSITE™, out-of-plane guide



### L12-3

**Exam Types:** Arterial, Breast, Carotid, Lung, Musculoskeletal, Nerve, Ophthalmic, Superficial, Venous

**Bandwidth:** 12 - 3 MHz

**Size:** 38 mm

**Scan Depth:** 1.5 - 9 cm

**Elements:** 192

**Optional Needle Guide Starter Kit:** CIVCO Infiniti Plus™ variable-angle, in-plane guide



### L15-4

**Exam Types:** Breast, Musculoskeletal, Nerve, Superficial

**Bandwidth:** 15 - 4 MHz

**Size:** 50 mm

**Scan Depth:** 1.5 - 6 cm

**Elements:** 256

**Optional Needle Guide Starter Kit:** CIVCO Infiniti Plus™ variable-angle, in-plane guide



### P5-1

**Exam Types:** Abdomen, Cardiac, Focused Cardiac, Lung, Obstetrics, Orbital, Transcranial Doppler (TCD)

**Bandwidth:** 5 - 1 MHz

**Size:** 19 mm

**Scan Depth:** 5 - 35 cm

**Elements:** 64



### T8-3 Transesophageal

**Exam Types:** Cardiac, Cardiac Resuscitation

**Bandwidth:** 8 - 3 MHz

**Size:** 11 mm

**Scan Depth:** 4 - 18 cm

**Elements:** 64



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