

## Sonosite ZX

The hardworking, easy-to-use  
ultrasound system.



# By your side.

Sonosite ZX is a well-designed and intentionally crafted point-of-care ultrasound system made to empower clinicians and elevate patient care.

# Confidence at every turn.

Designed for uncompromising durability, reliability, and agile adaptability — Sonosite ZX is equipped to be a dependable partner, always by your side.





## Engineered for versatility.

Ease-of-use found in an ergonomic device with an intuitive workflow, Sonosite ZX maneuvers with you as you work hard, day in and day out.

## Built for confidence.

When sight is paramount and work requires every technological advantage, Sonosite ZX is designed to give you the confidence you need to make the right clinical decisions for your patients.



## Crafted from legacy.

Sonosite's rich history in ultrasound imaging technology brings an innovative spirit and intellect to medical imaging. The result? Decades of focus pouring into one purpose, point-of-care ultrasound systems engineered to advance from diagnosis to procedure.

# Agile adaptability at every turn.

Empowering clinicians with the features and benefits they need most.

## Multiple Transducers - Ready to Go

Three of your most-needed transducers are ready at the touch of a button — requires Triple Transducer Connect accessory.

## Durable transducer holders

Integrated holders (no more cups) for simplified cleanup and ease-of-use.

## Low-profile wheelbase

Enables you to position the system close to the bedside for better accessibility.



## Versatile storage solutions

The flexible storage system adapts to left or right-side needs: gel holder, wipes holder, and storage bin.

## On-Board education

More than 150 scan-along tutorials are onboard including Anesthesiology, Pain Management, Procedures, and MSK, plus system and transducer use.

## Power cord management

Power cords are confined within the column to help prevent tangles.

## Peripheral Accessories

### Barcode scanners

Save time by automatically linking patient data to the ultrasound scan. English only, where available.

### Barcode expressions

Auto-populate physician ID and patient information with customized software for your Sonosite Barcode Scanner. English only, where available.

### Sonosite ECG module

The 3-lead Sonosite ECG module connects directly to the Sonosite ZX ultrasound system through a dedicated ECG port. This allows the system to display an ECG trace on the clinical monitor. Includes ECG lead wire set.

### Medical grade printer

Add the optional Black and White Printer to print ultrasound studies.



## P5-1

**MHz**  
5-1 MHz Phased

**Scan Depth**  
5-35 cm

### Exam Types

Abdomen	Obstetrics
Cardiac	Orbital
Focused Cardiac	Transcranial Doppler (TCD)
Lung	



## L19-5

**MHz**  
19-5 MHz Linear

**Scan Depth**  
1-6 cm

### Exam Types

Arterial	Ophthalmic
Lung	PIV
Musculoskeletal	Superficial
Nerve	Venous



## L15-4

**MHz**  
15-4 MHz Linear

**Scan Depth**  
1.5-6 cm

### Exam Types

Arterial	Nerve
Breast	Superficial
Carotid	Venous
Musculoskeletal	



## L12-3

**MHz**  
12-3 MHz Linear

**Scan Depth**  
1.5-9 cm

### Exam Types

Arterial	Nerve
Breast	Ophthalmic
Carotid	PIV
Lung	Superficial
Musculoskeletal	Venous



## C5-1

**MHz**  
5-1 MHz Curved

**Scan Depth**  
4.7-30 cm

### Exam Types

Abdomen	Musculoskeletal
Gynecology	Early Obstetrics
Lung	Obstetrics
Nerve	Spine



## IC10-3

**MHz**  
10-3 MHz Curved

**Scan Depth**  
3-15 cm

### Exam Types

Gynecology
Early Obstetrics
Obstetrics
Prostate



## T8-3 (Transesophageal)

**MHz**  
8-3 MHz Multi

**Scan Depth**  
4-18 cm

### Exam Types

Cardiac
Cardiac Resuscitation

## Use Cases

### Anesthesia

Clear images to give you assurance.

By your side in perioperative care, providing clear image quality in the moment. When it's time for a procedure, Sonosite ZX is the tool you can trust.

### Critical Care

Confidence when you need it most.

This simple, easy-to-use system works with a full set of transducers, helping you to address the complexities you face.

### Emergency Medicine

Efficiency when minutes matter.

With flexible configurations and an adaptive user interface, Sonosite ZX provides clarity so you can work quickly.

### Musculoskeletal

Carefully-focused patient care.

Help guide your patients back to health with reduced pain using proper needle guidance at the desired location.



From a legacy of invention, the hardworking, easy-to-use Sonosite ZX works by your side, room to room, day in and day out making a difference when every minute matters.

## Sonosite ZX Ultrasound System and Stand Specifications

General System and Stand Specifications	
Dimensions width x height unless otherwise stated	
<b>Stand Footprint</b>	19.9in x 22.6 in 50.6 cm x 57.4 cm
<b>Maximum Height</b> (system and stand)	53.7 in/ 136.5 cm monitor raised
<b>Minimum Height</b> (system and stand)	39.2 in/ 99.5 cm monitor lowered
<b>Height Adjustment Range</b>	4.4 in/ 11.2 cm
<b>Clinical Display Adjusts</b> <b>Touch Panel Angle</b>	0 to 140 degrees 20 degrees from horizontal
<b>Weight</b> (system and stand) (system only)	60.6 lbs/ 27.5 kg 16.9 lbs/ 7.65 kg
<b>System Controls</b>	Touch panel and physical buttons
<b>Touch Panel Control Size</b>	10in x 5.7 in 256 mm x 146 mm
<b>Clinical Monitor</b> Monitor Size Display Size Image Size	15.6in/39.6 cm 135 in x 7.6 in 34.4 cm x 194 cm 8.1in x 6.1 in 20.7 cm x 155 cm
<b>Clinical Monitor Resolution</b> (minimum) Display Size Image Size	1920 x 1080 pixels 1152 x 864 pixels
<b>Transducer Connections</b> (system and stand) (system only)	(3) Transducer ports (1) Transducer port
<b>Liquid Ingress Protection Rating</b> (system only)	IP22
<b>Immersion Rating</b> (transducers)	IPX7
<b>Operating System</b>	Windows 10 IoT Enterprise 2019 LTSC
<b>Architecture</b>	Digital broadband
<b>Dynamic Range</b>	Up to 183 dB
<b>Gray Scale</b>	256 shades
<b>HIPAA Compliance</b>	FIPS199, FIPS200, and NIST 800-53

### 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  
**Touch Panel:**Projected Capacitive (PCAP) touchscreen  
**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:**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

### Image Modes

2D Broadband Imaging, Tissue Harmonic Imaging, Pulse Inversion Harmonic Imaging, M-Mode, Color Velocity Doppler (CVD), Color Power Doppler (CPD), Color Variance Mode (cardiac only), Pulsed Wave Doppler (PW), Tissue Doppler Imaging (TDI)(cardiac only), Continuous Wave Doppler (CW)(cardiac only)

### Image Processing

Sonosite proprietary speckle reduction algorithm, SonoADAPT Imaging Technology, SonoMB™ Multi-beam Technology, dual imaging, Time Gain Compensation (TGC), AutoGain, restore default gains, dynamic range, duplex imaging, Triplex, 8x live zoom, Write zoom  
**Cine Processing:**Dynamic range  
**Cine Processing:**Zoom  
**2D Image Optimization:**Resolution/General/Penetration (Res/Gen/Pen), Color Doppler flow optimization, color variance mode, color compare, 2D sector control (steerable), output power control

### Auto Steep Needle Profiling

(Available for these transducers and exams)  
**C5-1:**Musculoskeletal, Nerve, Spine  
**L19-5:** Arterial, Musculoskeletal, Nerve, Superficial, Venous  
**L12-3:** Arterial, Breast, Carotid, Musculoskeletal, Nerve, Superficial, Venous  
**L15-4:** Breast, Musculoskeletal, Nerve, Superficial  
**Needle Guide Starter Kits:**C5-1, IC10-3, L19-5, L12-3, L15-4

### Basic Measurements

**2D:** Distance (10 measurements), curved distance, area, circumference, ellipse, manual trace, volume, target depth, angle, volume flow diameter  
**Doppler:** 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  
**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

### Connectivity and External Data Management

2 USB 2.0 ports (stand), 2 USB 3.0 Ports (system engine), 1USB Port for optional printer  
 Ethernet port, 1080p digital video output (compatible with 1080p displays)-stand only  
 Storage capacity alert if free internal storage is less than 10%, study data Auto delete function  
 IPv4 and IPv6 networking (DHCP, SLAAC, and static addressing, automatic time setting by synchronization with network time server

### Wireless Solutions

**2.4 GHz and/or 5 GHz Wireless**802.11 (A, B, G, N, and AC networking)

**Key Management Protocols:**WPA/WPA2 personal, WPA/WPA2 enterprise (EAP-TLS, EAP-PEAP) Radius (EAP-TLS, EAP- PEAP)

### DICOM Image Management

Store, Modality Worklist, Modality Perform Procedure Step (MPFS), Storage Commitment  
 Basic Text and Comprehensive Structured Reports (SR), 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, DICOM USB export, Allow saving connectivity configuration via USB for easy replication or restoration, DICOM compliant, DICOM TLS Secure Transport Connection Profile support

### 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  
**Security Policies:** Open, WEP, Radius, WPA, WPA2  
 Complex password rules support  
 Federal System Use Notification support  
 Guest mode support  
 DICOM TLS Secure Transport Connection Profile support  
**Data Encryption for Data at Rest and in Transit:**FIPS 140-2 validated encryption algorithms  
 System wide white-listing  
 Hardened operating system and services  
 System firewall  
 MDS2 located on Sonosite.com

### Stand Includes

Adjustable stand head, input/output connections, (4) transducer holders, Triple Transducer Connect, cable management system, dual gel holder, wipes holder, storage bin, lockable drawer, stand battery, cord wrap, power cord  
**Castors:** (4) inch swivel, 4 locking wheels

### Warranty

Sonosite offers an industry-leading, 5-year standard warranty on most ultrasound systems and Sonosite-manufactured transducers to ensure your equipment is protected. Learn more on sonosite.com

### Supported Languages

**System User Interface Languages:**English, French, Italian, Japanese, Spanish, Simplified Chinese



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Any patient. Anywhere. Anytime.