Sonosite ZX

The hardworking, easy-to-use
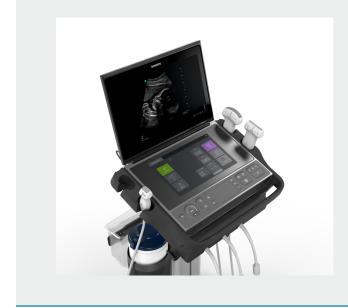ultrasound system.

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.

Triple transducer connect
Connects 3 transducers simultaneously With the touch of a button, your most-needed transducers are at the ready.

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

Low-profile wheel base
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, storage bin, and lockable drawer to secure supplies.

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.

Sonosite 5-year Standard Warranty

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.
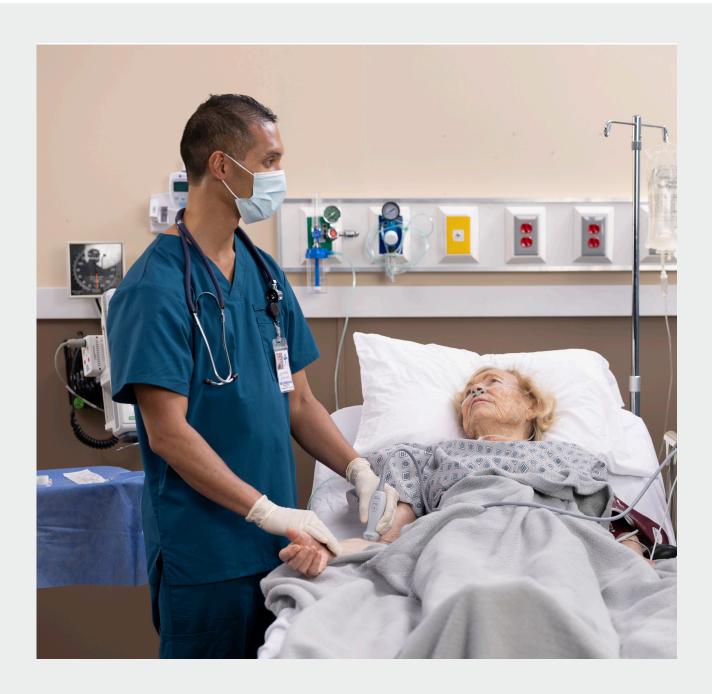
Emergency Medicine

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

Stand footprint	19.9 in x 22.6 in 50.6 cm x 57.4 cm
Maximum height (system and stand)	53.7 in/ 136.5 cm monitor raised
Minimum height (system and stand)	39.2 in/ 99.5 cm monitor lowered
Height adjustment range	4.4 in/ 11.2 cm
Clinical display adjusts Touch panel angle	0 to 140 degrees 20 degrees from horizontal
Weight (system and stand) (system only)	60.6 lbs/ 27.5 kg 16.9 lbs/ 7.65 kg
System controls	Touch panel and physical buttons
Touch panel control size	10 in x 5.7 in 256 mm x 146 mm
Clinical monitor Monitor size Display size Image size	15.6 in/ 39.6 cm 13.5 in x 7.6 in 34.4 cm x 19.4 cm 8.1 in x 6.1 in 20.7 cm x 15.5 cm
Clinical monitor resolution (minimum) Display size Image size	1920 x 1080 pixels 1152 x 864 pixels
Transducer connections (system and stand) (system only)	(3) Transducer ports (1) Transducer port
Liquid ingress protection rating (system only)	IP22
Immersion rating (transducers)	IPX7
Operating system	Windows 10 IoT Enterprise 2019 LTSC
Architecture	Digital broadband
Dynamic range	Up to 183 dB
Gray scale	256 shades
HIPAA compliance	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), 1 USB 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 Steps (MPPS), 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
Casters: (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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Value from Innovation

Any patient. Anywhere. Anytime.