

## Sonosite ST Specifications

### General System and Stand Specifications

(Dimensions width x height unless otherwise stated)

#### Stand Footprint:

<b>Width</b>	23 in 58.4 cm
<b>Length</b>	25.4 in 64.5 cm

#### Maximum Height (monitor raised):

68 in/ 172.6 cm

#### Minimum Height (monitor lowered):

53.75 in/ 136.5 cm

#### Height Adjustment Range:

9.6 in/ 25 cm

#### Clinical Monitor Tilt:

0 to 60 degrees (0 degrees tilting forward from vertical, 60 degrees tilting back from vertical)

#### Weight:

109.3 lbs. (49.6 kg) with the L15-4 transducer and battery installed

#### Casters:

4 inch Swivel, 4 Locking

#### User Interface:

Projected Capacitive (PCAP) Touch Screen

#### Clinical Monitor Size:

21.3 in/ 54.1 cm

#### Clinical Monitor Display Size:

17.01 x 12.76 in/ 43.2 x 32.4 cm

#### Clinical Monitor Image Size:

10.03 x 7.53 in/ 25.49 x 19.12 cm

Clinical Monitor Resolution (minimum):

<b>Display Size</b>	1600 x 1200 px
<b>Image Size</b>	944 x 708 px

#### Transducer Connections:

2 x connections

#### 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

#### Greyscale:

256 grey shades

#### HIPAA Compliance:

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

#### Durability:

The transducers shall withstand a drop from a height of 1 metre. 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 C5-1, C10-3 IC10-3, L19-5, L12-3, L15-4, and P5-1 transducers

1-year standard warranty on stand

1-year standard warranty on batteries and accessories carrying the manufacturer's label excluding the system.

Provide a service loaner system engine within 24 hrs, where available (24 hour shipping not available in all geographic locations)

### Imaging Modes

2D/B-Mode

[Broadband Imaging](#)

[Tissue Harmonic Imaging](#)

[Pulse Inversion Harmonic Imaging](#)

M-Mode

Colour Velocity Doppler (CVD)

Colour Power Doppler (CPD)

Colour Variance (Cardiac only)

#### Licensed option

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, C10-3, IC10-3, and P5-1 transducers (Abdomen, OB, Early OB, Gynaecology, Prostate and Cardiac exam types only)

Centerline graphic on display for linear and curvilinear transducers

On-screen needle guide support for IC10-3 and L19-5 transducers

Auto Gain adjust and reset

Procedure Mode

## B-Mode Controls:

Depth, Gain, Time Gain Compensation (TGC), Auto Gain, SonoMB, 2D Mode THI, 2D Image Optimisation (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

## Screen Depth:

1 – 35 cm

## 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, PIV

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

**L15-4:** Arterial, Breast, Carotid, MSK, Nerve, Superficial, Venous

## M-Mode Imaging

### M-Mode Controls:

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

### M-Mode Display Format:

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

## Colour Imaging

Max PRF used is 16667Hz

### Colour Modes:

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

### Colour Controls:

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

## User Interface and Programmable Controls

Clinical Display Information

Virtual QWERTY Keyboard

### Touch Panel:

Projected Capacitive (PCAP) Touch Screen User

## Interface Touch Screen Main Controls:

TGC (Time Gain Compensation), Gain Slider, Depth, Cine Slider, Save Clip, Save Image, Freeze, Colour, M-Mode, and 2D

### Configurable Start Screen:

Start, Scanning, Transducer/Exam Selection, Patient Information

### User Defined Exam Types:

Imaging mode settings and on-screen exam specific optimisation 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, Anaesthesia, Pain Management, Obstetrics/Gynaecology, Procedures, and Musculoskeletal

## Scan-along Educational Tutorials

### Anaesthesiology

#### 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

### Pain Management:

Caudal, Stellate Ganglion, Suprascapular Nerve Block, II/IH Block

### Obstetrics & Gynaecology:

#### Gynaecology

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 Linear Array, Lung Phased Array, 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-TA, Ovarian Cyst-TA, Testicular Torsion

### Head/Neck and Pathology

Airway, Ocular, ICP, Retinal Detachment, Thyroid Evaluation

### Extremity

DVT, Long Bone Fracture, Tibia

## COVID-19:

### eFAST

Lung Linear Array, Lung Phased Array, 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, Pneumonia, Pulmonary Edema

### Abdomen

Aorta, Gallbladder, 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, Trigger Finger

### 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 Tendonosis, 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

### Image Terms:

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)

### M-Mode Cine Review:

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

### Internal Memory:

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

### 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:

JPEG, BMP, and MP4

### JPEG Compression Options:

High, Medium and Low

## Worksheets

### Acute Care Worksheets:

Aorta, Appendix, Bladder, Cardiac, Deep Vein Thrombosis (DVT), eFAST, FAST, Gallbladder, Generic, Gynaecology, 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

### Customisable Worksheets:

Available with Sonosite Synchronicity workflow manager integration

## 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, eFAST, Lung, Focused Cardiac, Cardiac Gynaecology, Early OB, Focused OB, OB, Prostate

## Basic Measurements

### 2D Measurements:

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

### 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

#### 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, 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 Cusp Separation, LVET, IVS FT, LVPW FT, LV Mass, LV Mass Index, IVSd/LVPWd, IVSs/LVPWs, LA/Ao, Heart Rate

## Gynaecology and Obstetrics

Biophysical Profile

### 2D Gynaecology 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, GA by LMP, AUA, Ovary Volume (right and left)

### 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/BPD, FL/HC, FL/AC, Cephalic Index (HC)

### M-Mode Calculations:

FHR

### User-Selected Gestational Age References:

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

### Multiple Gestation Package:

Quads

### Small Parts and Musculoskeletal

#### 2D Calculations:

d:D hip ratio, hip angles

## DICOM Image Management

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

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



## 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 synchronisation with network time server

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

## Optional Medical Informatics

Onboard QView application for QPathE

Integration of optional Sonosite Synchronicity workflow manager for credentialing, POCUS billing, and customisable worksheets

Barcode Expressions: Sonosite barcode scanner customisation software (English only)

## Wireless Solutions

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

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)

802.11i Shared Key Authentication

### Key management protocols:

WPA/WPA2 Personal

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

RADIUS (EAP-TLS, EAP-PEAP)

### Encryption protocols:

AES (Advanced Encryption Standard)

TKIP (Temporal Key Integrity Protocol)

### FIPS 140-2 wireless security mode

#### 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

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

Federal System Use Notification

Password Protection: username and password capability

Guest mode support

DICOM TLS Secure Transport Connection Profile support

Data encryption for data at rest and in transit: FIPS 140-2

System wide white-listing

Hardened OS and services

System firewall

MDS2 listed on sonosite.com

## 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

2 transducer holders

Dual Transducer Connect

Stand Battery

Dedicated holders for disinfectant wipes and gel

Large storage basket

Lockable drawer

AC cord retainer

I/O connections

## Optional Accessories

Medical grade B&W printer

Barcode Scanner

PowerPark

## Battery Management

### System operates via battery or AC power

Battery charge indicator light on rear of clinical monitor

Battery charge indicator on clinical display

Battery Charge Warning: At charge of 5 minutes of charge left or lower

### System Batteries

Battery Life: 2+ hours with stand battery

Battery Charging Time: Charges from 15 - 80% in 2 hours 35 minutes

Battery: Rechargeable lithium-ion

Internal Battery Capacity: 129.6 Watt hours

Additional Stand Battery Capacity: 259.2 Watt hours

Battery Lifecycle: 80% capacity after 500 charge cycles

## Stand Rating

### Power Input:

100-240 VAC, 50-60 Hz, 6.0-2.5 A

### Power Output (for optional printer):

100-240 VAC, 50-60 Hz, 2.5-1.0 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

Cleaning Mode available for ease of disinfection

System work surface is sealed edge-to-edge

Transducers are IPX7 rated for immersion

## Environmental Limits for System, Transducer, and Battery

### Operating Limits:

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:

Temperature: -31-149°F (-35-65°C)

Humidity: 5-95% relative humidity (R.H.)

Atmospheric Pressure: 500-1060hPa (0.5-1.05 ATM)

## Supported Languages

### System User Interface Languages:

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

## Transducers

### C5-1

**Exam Types:** Abdomen, Gynaecology, 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



### C10-3

**Exam Types:** Abdomen, Gynaecology, Lung, Nerve, MSK, Spine

**Bandwidth:** 10 - 3 MHz

**Size:** 35 mm

**Scan Depth:** 3 - 18 cm

**Elements:** 128

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



### IC10-3

**Exam Types:** Gynaecology, 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, Lung, Musculoskeletal, Nerve, Ophthalmic, Superficial, Venous, PIV

**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, PIV

**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:** Arterial, Breast, Carotid, Musculoskeletal, Nerve, Superficial, Venous

**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



**FUJIFILM Sonosite, Inc.**  
Worldwide Headquarters  
21919 30th Drive SE, Bothell, WA 98021-3904  
Tel: +1 (425) 951 1200 or +1 (877) 657 8050  
Fax: +1 (425) 951 6800 www.sonosite.com

**Sonosite Worldwide Offices**  
FUJIFILM Sonosite Australasia Pty Ltd: Australia ..... 1300 663 516  
FUJIFILM Sonosite Australasia Pty Ltd: New Zealand ..... 0800 888 204  
FUJIFILM Sonosite Canada Inc. .... +1 888 554 5502  
FUJIFILM Sonosite GmbH-Germany ..... +49 69 80 88 40 30  
FUJIFILM Sonosite Iberica SL-Spain ..... +34 91 123 84 51  
FUJIFILM Sonosite India Pvt Ltd ..... +91 124 288 1100

FUJIFILM Sonosite Ltd-United Kingdom ..... +44 1462 341 151  
FUJIFILM Sonosite SARL-France ..... +33 182 880 702  
FUJIFILM Asia Pacific Pte. Ltd ..... +65 6383 9933  
FUJIFILM (China) Investment Co., Ltd. .... +86 21 5010 6000  
FUJIFILM Medical Co., Ltd.-Japan ..... +81 3 0418 7190  
FUJIFILM Middle East (FZE) ..... +971 4 887 8722

**FUJIFILM Sonosite BV**  
European Headquarters  
Joop Geesinkweg 140, 1114 AB Amsterdam, Netherlands  
Tel: +31 20 462 0000

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